

QK
125
.S815

A LIST
OF
PLANTS GROWING WITHOUT CULTIVATION

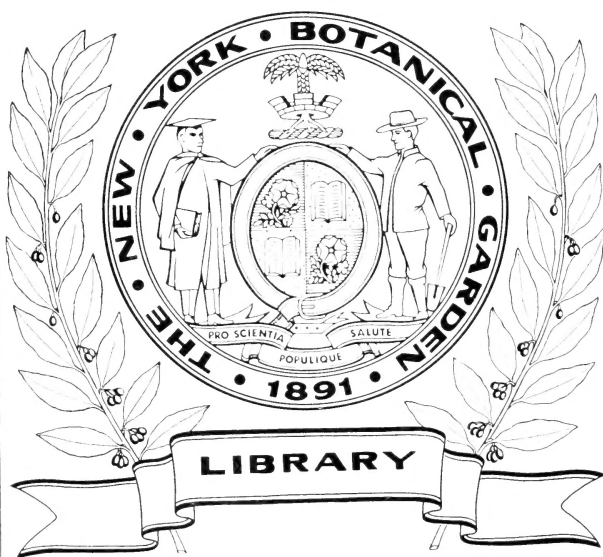
IN
Franklin, Hampshire and Hampden Counties
MASSACHUSETTS

By GEORGE E. STONE,
Professor of Botany at the Massachusetts Agricultural College

AMHERST, MASS.
PRESS OF CARPENTER & MOREHOUSE

1913

QK125
.S815



Norman Taylor Collection

A LIST
OF
PLANTS GROWING WITHOUT CULTIVATION

IN
Franklin, Hampshire and Hampden Counties
MASSACHUSETTS

By GEORGE E. STONE,

Professor of Botany at the Massachusetts Agricultural College

AMHERST, MASS.
PRESS OF CARPENTER & MOREHOUSE
1913

Additions and Corrections.

The following plants are introduced instead of native, as indicated in the text:

Amaranthus HYBRIDUS L. and forma HYPOCHONDRIACUS L., p. 26.

Melilotus OFFICINALIS (L.) Lam., p. 38.

Insert p. 29, after **R. abortivus** L.:

Ranculatus abortivus L. var. **eucyclus** Fernald. Springfield,
L. Andrews.

Insert p. 31, after **Alyssum**:

Thlaspi ARVENSE L. Springfield, L. Andrews.

Insert p. 32, after **S. officinale** (L.) Scop. var. **leiocarpum** DC.:

Sisymbrium ALTISSIMUM L. Springfield, L. Andrews.

The first effort toward a systematic study of the native plants of this region was made by Pres. Edward Hitchcock¹ about 1817. The results of his explorations were published in 1829, and for many years very little was added to this list except what Prof. Tuckerman and others published in contemporary scientific journals. In 1875 Prof. Edward Tuckerman,² who for many years occupied the chair of history and botany in Amherst College, published his "Flora-Amherstiensis," in co-operation with Mr. Charles C. Frost, of Brattleboro, Vermont. This list is based on Pres. Hitchcock's previous catalogue, but is much more extensive, including as it does an elaborate list of mosses, liverworts, lichens and fungi, and in all it contains nearly 3,000 species and varieties. It is unusually complete for its day, and represents the work of skilled observers and systematists.

Besides being largely responsible for the flowering plants and vascular cryptogams contained in the Flora, Prof. Tuckerman contributed a very elaborate list of lichens, a most perplexing group of plants. He will always be remembered as the American pioneer in the study of lichens, and was from the first a thorough master of this difficult group, while he lived having no competitors. Even today his work remains unsurpassed and ranks as a classic.

The comprehensive list of mosses, liverworts, fungi, etc., was contributed by Mr. Charles C. Frost, and quite a few of the fungi bear his name as authority. This self-educated man, whose trade was that of cobbler, spent his leisure moments in the study of these difficult groups.

In 1887 Dr. N. A. Cobb,³ then a teacher of science at Williston Seminary, but later government pathologist in New South Wales and now with the Bureau of Plant Industry, Washington, D. C., published a revised edition of Prof. Tuckerman's catalogue, in which new plants were added and the boundaries of others not so well known extended. Since Dr. Cobb's catalogue in 1887 a few additions to the plants of the region have been published, appearing largely in *Rhodora*.

Professional collectors and students from the various educational institutions located in the Connecticut valley have for years been active in collecting herbaria, and some new and rare plants have been

¹ E. Hitchcock—Catalogue of Plants growing without Cultivation in the Vicinity of Amherst College.

² E. Tuckerman—Catalogue of Plants growing without Cultivation within Thirty Miles of Amherst College.

³ N. A. Cobb.—A List of Plants Found Growing Wild within Thirty Miles of Amherst.

brought to light. But since 1875 the study of botany has undergone many changes, and its present day problems differ greatly from those of former times. The systematist's conception of a species has also changed, a finer discrimination in determining species being required at the present time. The nomenclature question, the constant splitting up of species and the revision of families and genera are rendering the subject more perplexing and less fascinating to at least the true nature loving botanist.

In the present instance it has been our intention to bring the flora up to date and modify its scope to include the three counties comprising the Connecticut valley. These counties, whose boundaries are fairly uniform, represent a section extending from Connecticut to the New Hampshire and Vermont lines. The Connecticut valley forms a distinct area differing quite widely in its soil and climatic conditions from other sections of the state, the elevation ranging from less than 100 feet to only a few hundred feet. Here the elm reaches its greatest perfection, and on the higher slopes the rock maple finds its most congenial environment. The eastern part of the territory resembles that of Worcester county, and the general elevation ranges from 400 to about 1,200 feet; while the western section, which has an elevation of 800 to 2,200 or more feet, and which is farther from the coast, resembles in many ways southern Vermont. On the higher elevations of our western range the golden hawkweed becomes a pest in fields, as in Vermont, although in the Connecticut valley this plant is not common enough to be a nuisance. Here, too, the soil conditions are more primitive, therefore humus plants are found more abundantly than elsewhere in the state. In this region grow forests of beech and red spruce, and the balsam fir and hackmatack are common.

The diversified forms of plants which characterize a region and which we term its flora, represent adaptations to a more or less congenial environment, and even during the relatively brief period of the settlement of New England many of our introduced plants undoubtedly became modified to a certain extent. Even species which are adapted to a much warmer climate than our own frequently prove themselves as hardy as our native species, whereas on the other hand, quite a few of our native trees, like the sycamore and others, are often affected by winter killing.

There are many factors which play an important part in the distribution of plants of which we know little, and the problems involved are difficult of solution. Variations in the humus content, in the soil moisture or light intensity, may completely exterminate a species in a given locality. Continued deforestation has greatly modified our flora, many species having become rarer. Humus has played a very important role not only in affecting the predominance of certain

species but in modifying their growth. Many such species as hemlock, canoe birch, beech, hobblebush, round-leaved cornel (*Cornus circinata* L'Her) and others find less congenial conditions than formerly. The hemlock has declined from a tree second in importance in the primitive forests to one of slight importance at the present time. Such plants as *Hydrophyllum virginianum* and *canadense*, certain orchids and many others were no doubt always more or less rare or local, but at present they are very rare. In colonial times the wild strawberry was quite abundant in Massachusetts, and even less than a century ago it was fairly plentiful, but at present it is of no economic value except in our western territory. Some of the plants observed by Dr. Hitchcock nearly a century ago and included in this list have not been found since his time, and others have become rare. On the other hand, deforestation and the consequent cultivation of much of our soil has modified the environment to such an extent that the willow, birch, goldenrod, aster, violet, bluet, *Lespedeza* and a host of others are found more abundantly than formerly, and as Prof. Ezra Brainerd has pointed out, there is a marked tendency for violets to hybridize when growing in the open.

Many of our introduced plants were brought from Europe in early times. Some of them have been growing without much change for many years, while others have so adapted themselves to our conditions that they have become troublesome weeds. In the past twenty-five years many such plants have been introduced through grass seed and by means of commercial relations with other countries. Many of the plants which Prof. Tuckerman observed as rare in 1875 are now common enough, such, for example, as *Stellaria graminea* L., *Digitalis humifusa* Pers., *Leontodon autumnalis* L. and *Cerastium vulgatum* L., etc. On the other hand, some of our introduced plants have not shown any tendency to spread, and in some cases they have apparently not held their own. Among such plants might be mentioned *Tussilago Farfara* L., *Sedum*, buckthorn (*Rhamnus cathartica* L.), various dooryard weeds and plants used for medicinal purposes in former times, such as lovage (*Levisticum officinale* Koch.), wormwood (*Artemisia absinthium* L.), catnip (*Nepeta Cataria* L.), horseradish (*Radicula Armoracia* L.), henbane (*Hyoscyamus niger* L.), horehound (*Marrubium vulgare* L.), and Canada thistle, which forty years ago was considered a more or less serious pest, but is not now troublesome. These plants were in former times considered essential by most well regulated families, but now, along with the lilac, Lombardy poplar, live-forever and the old garden rose, they may be found persisting under unfavorable conditions, serving merely as landmarks of once thriving homesteads.

Some of the more important introduced species not noted by Prof. Tuckerman, which are more or less common now, are *Trifolium hybridum* L., golden hawkweed, *Bromus tectorum* L., Russian thistle (*Salsola*), *Galinsoga*, *Berteroa incana* (L.) DC., *Thymus Serpyllum* L., *Cynodon Dactylon* (L.) Pers., *Lysimachia Nummularia* L., *Lychnis Flos-cuculi* L. and *Lychnis alba* Mill.

Impure seed is the most important factor in the introduction of harmless and noxious species, and from 75 to 100 or more different species may occur in a particular sample or lot of grass seed. The impurities run from 5 to 25 per cent or more, and although frequently harmless, 10 or 15 per cent of noxious weeds are sometimes present in grass or clover seed. Since seed are sent from all over the United States and imported from foreign countries, it follows that a great variety of plants may be introduced into a particular region. Black medick, Canada thistle, charlock, chicory, crabgrass, chickweed, dodder, various docks and plantains, green foxtail, goosefoot, lady's thumb, ragweed, sheep sorrel, wild carrot, witch grass, yellow foxtail and many others constitute the principal impurities in seed. Dame and Collins,¹ in their "Flora of Middlesex county," enumerate 460 naturalized and adventive species and varieties which have become more or less established in that region.

In the preparation of this list I am under obligations to different ones whose names will be found throughout the text. This is especially true of Mr. Ray E. Torrey, of the 1912 class of this College, who has rendered valuable assistance all through the work. Mr. Torrey has also been of great service, from his extensive collecting and critical knowledge of our flora, in furnishing data in regard to the present range of certain species.

I am also indebted to Prof. A. Vincent Osmun, my colleague, who has given much attention to our native ferns and violets, and to Miss Jessie V. Crocker for assistance in seeing the work through the press. Dr. W. H. Chapin, of Springfield, has kindly furnished notes in regard to the plants in that locality, and Mrs. Maria L. Owen's long experience in collecting and studying the native plants has been helpful. Mr. Luman Andrews, of Southington, Connecticut, who is at present making an exhaustive study of the plants about Springfield, has furnished a large amount of data concerning new finds, as well as extending our knowledge of the range of other species. Mr. Andrews' herbarium has been presented to the Springfield Science Museum, where it is well arranged, and it is anticipated that he will add greatly to it in the future. We have also had access to the herbarium of the Springfield Science Museum, which besides the already referred to Luman Andrews collection, contains that of the Springfield Botanical

¹ L. Dame and F. S. Collins, "Flora of Middlesex County, Massachusetts, 1888.

Society; and, in addition, we have consulted the herbaria of Mt. Holyoke and Amherst Colleges, and the Knowlton herbarium* of the Massachusetts Agricultural College. The mosses, liverworts, lichens, fungi and Characeae have been purposely omitted from this list. The list of lichens in Prof. Tuckerman's catalogue is one of the most complete and authentic published, but the list of fungi, Characeae, etc., contributed by Mr. Frost is of little value as it stands today, since much progress has been made in the study of these groups since his time.

This list would possess much less value were it not for the work of my predecessors, and frequent reference has been made to Pres. Edward Hitchcock¹, Prof. Edward Tuckerman², Prof. H. G. Jesup³, Col. W. S. Clark⁴, Dr. N. A. Cobb and others, who have contributed to the previous lists of this region.

I have endeavored to differentiate between indigenous (native), naturalized, and adventive species (introduced but not permanently established), by putting the naturalized species in capitals and the adventive in italics, although there may be some errors in judgment as to which are adventive and which naturalized in our range.

The nomenclature and arrangement of families, etc., follows Gray's Manual, seventh edition, although we have in some instances referred to Britton & Brown's North American Flora, and Prof. L. H. Bailey's Cyclopedia of American Horticulture.

This list contains in all 1190 native and 303 naturalized and adventive species, a total of 1493.

GEORGE EDWARD STONE.

Amherst, Mass., Feb. 15, 1913.

¹ Edward Hitchcock, A. M., D. D., LL. D., 1793—1864. Professor Chemistry and Natural History Amherst College, 1825—1845. President, 1845—1854. State Geologist, 1830—1864. Emeritus Professor Geology Amherst College, until 1864. Pioneer in American geological research.

² Edward Tuckerman, B. A., M. A., LL. B., LL. D., 1817—1886. Lecturer and Professor Oriental History Amherst College, 1854—1873. Professor Botany, 1858—1886. Pioneer in American lichenology.

³ Henry Griswold Jesup, M. A., 1826—1903. Professor Botany Dartmouth College, 1877—1899.

⁴ William Smith Clark, M. A., Ph. D., LL. D., 1826—1886. Professor Chemistry, Botany and Zoology Amherst College, 1852—1867. Colonel Civil War, 1862. President and Professor Botany and Horticulture, Mass. Agr. College, 1867—1879.



PTERIDOPHYTA

(Ferns and Fern Allies)

POLYPODIACEAE

- Polypodium* [Tourn.] L. Polypody.
 vulgare L. Common Polypody.
Phegopteris [Presl.] Fée. Beech Fern.
 polypodioides Fée.
 hexagonoptera (Michx.) Fée.
 Dryopteris (L.) Fée. Oak Fern.
Adiantum [Tourn.] L. Maidenhair Fern.
 pedatum L.
Pteris L. Brake or Bracken.
 aquilina L. Common Brake.
Pellaea Link. Cliff Brake.
 atropurpurea (L.) Link. Mt. Toby; Gorge and near Titan's piazza, Mt. Holyoke, Mrs. C. S. Phelps; Wilbraham, Dr. W. H. Chapin; Mt. Tom; Mt. Sugar Loaf.
Cryptogramma R. Br. Rock Brake.
 Stelleri (Gmel.) Prantl. Mt. Toby.
Woodwardia Sm. Chain Fern.
 virginica (L.) Sm. Springfield, Dr. W. H. Chapin; Belchertown, South Hadley.
 areolata (L.) Moore. Hadley, H. G. Jesup; Deerfield, E. Hitchcock.
Asplenium L. Spleenwort.
 Trichomanes L.
 platyneuron L. Oakes.
 Ruta-muraria L. Wall Rue. Mt. Toby.
 angustifolium Michx. Mt. Toby, Mt. Tom and vicinity.
 acrostichoides Sw. Amherst, South Hadley, etc.
 Filix-femina (L.) Bernh. Lady Fern.
Camptosorus Link. Walking Leaf.
 rhizophyllus (L.) Link. Mt. Toby, etc., Mt. Holyoke[Gorge] Mrs. C. S. Phelps; Wilbraham, Dr. W. H. Chapin.
Polystichum Roth.
 acrostichoides (Michx.) Schott. Christmas Fern.
 acrostichoides (Michx.) Schott. var. *schweinitzii* (Beck.) Small.
 Not rare.
Aspidium Sw. Shield Fern. Wood Fern.

- A. *Thelypteris* (L.) Sw.**
simulatum Davenp. Mt. Toby, A. V. Osmun.
noveboracense (L.) Sw.
marginale (L.) Sw.
Goldianum Hook. Mt. Tom, S. Stebbins; Mt. Toby; Notch, Mt. Holyoke, A. V. Osmun.
Boottii Tuckerm. Mt. Toby.
cristatum (L.) Sw.
cristatum L. Sw. var. *clintonianum* D. C. Eaton. Mt. Toby, etc.
spinulosum (O. F. Müller) Sw. Mt. Toby, etc.
spinulosum (O. F. Müller) Sw. var. *intermedium* (Muhl.) D. C. Eaton. Mt. Toby, etc.
spinulosum (O. F. Müller) Sw. var. *dilatatum* (Hoffm.) Hook. Mt. Toby, A. V. Osmun.
- Cystopteris* Bernhardi.** Bladder Fern.
bulbifera (L.) Bernh. Mt. Toby, Sunderland, etc.
fragilis (L.) Bernh. Springfield, S. Stebbins; Mt. Holyoke; Sunderland, etc.

- Woodsia* R. Brown.**
ilvensis (L.) R. Brown.
obtusa (Spreng.) Torr.
- Dicksonia* L'Hér.**
punctilobula (Michx.) Gray. Hay-scented Fern.

- Onoclea* L.**
sensibilis L. Sensitive Fern.
***Struthiopteris* (L.) Hoffman.** Ostrich fern. This fern in Mass. attains its maximum development in the Conn. valley reaching a height of 7 feet or more.

SCHIZAEACEAE

- Lygodium* Swartz.** Climbing Fern.
palmatum (Bernh.) Sw. Local.

OSMUNDACEAE

- Osmunda* [Tourn.] L.** Flowering Fern.
regalis L.
Claytoniana L.
cinnamomea L. Cinnamon Fern.

OPHIOGLOSSACEAE

- Ophioglossum* [Tourn.] L.** Adder's Tongue.
vulgatum L.
- Botrychium* Swartz.** Moonwort.
simplex E. Hitchcock. Conway, E. Hitchcock; Plainfield, etc., Porter; Mt. Toby.

- B. lanceolatum** (Gmel.) Angstroem. var. **angustisegmentum** Pease & Moore. Amherst, L. B. Tuckerman; Conway, H. G. Jesup; Mt. Toby, Sumner C. Brooks; Hol-yoke Range, A. V. Osmun.
- ramosum** (Roth.) Ashers Conway, etc., H. G. Jesup; Mt. Toby, T. O. Fuller in *Rhodora*, Vol. III., p. 144; Spring-field, Dr. W. H. Chapin.
- obliquum** Muhl.
- obliquum** Muhl. var. **dissectum** Spreng.
- ternatum** (Thunb.) Swartz. var. **intermedium** D. C. Eaton.
- virginianum** (L.) Swartz. Rattlesnake Fern.

EQUISETACEAE

- Equisetum** [Tourn.] L. Horsetail.
- arvense** L. Common Horsetail.
- arvense** forma **decumbens**, Springfield.
- sylvaticum** L.
- fluviatile** L. Pipes.
- hyemale** L. Scouring Rush.
- hyemale** L. var. **affine** (Engelm.) A. A. Eaton. Springfield, L. Andrews.
- variegatum** Schleich. var. **Jesupi** A. A. Eaton. Conway, H. G. Jesup.
- scirpoides** Michx. Plainfield, Porter; Colrain, E. F. Williams in *Rhodora*, Vol. XII., p. 170.

LYCOPODIACEAE

- Lycopodium** L. Club moss.
- Selago** L. Mt Holyoke, Freeman in *Rhodora* Vol. V., p. 290.
- lucidulum** Michx.
- inundatum** L. Amherst, etc.
- annotinum** L.
- clavatum** L. Common Club Moss.
- clavatum** L. var. **monostachyon** Grev. & Hook.
- obscurum** L.
- obscurum** L. var. **dendroideum** (Michx.) D. C. Eaton.
- sabinaefolium** Willd. Tuckerman.
- complanatum** L.
- complanatum** L. var. **flabelliforme** Fernald. Ground Pine.
- tristachyum** Pursh.

SELAGINELLACEAE

- Selaginella** Beauv.
- rupestris** (L.) Spring.
- apus** (L.) Spring.

ISOETACEAE

Isoetes L. Quillwort.

echinospora Durieu. var. *Braunii* (Dur.) Engelm.

Eatoni Dodge.

Gravesii A. A. Eaton.

Engelmanni A. Br. Other forms of *Isoetes* exist in this region
but they have not been sufficiently studied.

SPERMATOPHYTA

(Seed Plants.)

GYMNOSPERMAE

TAXACEAE

Taxus [Tourn.] L. Yew.

canadensis Marsh. American Yew, Ground Hemlock.

PINACEAE

Pinus [Tourn.] L. Pine.

Strobus L. White Pine.

rigida Mill. Pitch Pine.

SYLVESTRIS L. Scotch Pine. Escaped from cultivation and established abundantly in some localities.

resinosa Ait. Red Pine. Locally distributed.

Larix [Tourn.] Adans. Larch. American Larch, Tamarack, Hackmatack.

laricina (DuRoi) Koch.

decidua Mill. Amherst, escaped from cultivation.

Picea Link. Spruce.

rubra (DuRoi) Dietr. Red Spruce. Occasionally found on high elevations. Much less abundant in our region than Worcester and Berkshire counties.

mariana (Mill.) BPS. Black or Bog Spruce. Found in cold bogs and swamps.

abies (L.) Karst. Norway Spruce. Occasionally escaped from cultivation.

Abies [Tourn.] Hill. Fir.

balsamea (L.) Miller. Balsam or Balm-of-Gilead Fir. Generally distributed but not common.

Tsuga (Endl.) Carrière. Hemlock.

canadensis (L.) Carr.

Chamaecyparis Spach. White Cedar, Cypress.

thyoides (L.) BSP. Springfield.

Juniperus [Tourn.] L. Juniper.

communis L. Common Juniper.

communis L. var. *depressa* Pursh. Three distinct types of *Juniperus communis* are found in this region; a low form var. *depressa*; a more or less erect form considered as the type; and a tree-like form corresponding to *J. communis* var. *erecta* Pursh. See Mrs. E. H. Terry, *Rhodora*, Vol. III., p. 146.

virginiana L. Red Cedar or Savin. Variable in form and color.

ANGIOSPERMAE

MONOCOTYLEDONEAE

TYPHACEAE

- Typha* [Tourn.] L. Cat-tail Flag.
latifolia L. Common Cat-tail.
angustifolia L. Belchertown near B. & M. R. R. station, S. C.
 Brooks.

SPARGANIACEAE

- Sparganium* [Tourn.] L. Bur-reed.
eurycarpum Engelm.
americanum Nutt. Bay street, Springfield, L. Andrews.
simplex Huds.

NAJADACEAE

- Potamogeton* [Tourn.] L. Pondweed.
natans L.
Oakesianus Robbins.
epiphydrus Raf.
alpinus Balbis.
americanus C. & S. Conn. river, etc.
pulcher Tuckerm. South pond, Belchertown, E. Tuckerman.
amplifolius Tuckerm.
heterophyllus Schreb.
heterophyllus forma *graminifolius* (Fries) Morong.
lucens L. Leverett pond. E. Tuckerman.
praelongus Wulf.
perfoliatus L.
zosterifolius Schumacher.
obtusifolius Mertens and Koch. Forge pond, Granby, E. Tuckerman.
pusillus L.
foliosus Raf.
hybridus Michx.
dimorphus Raf.
pectinatus L. Conn. river, E. Tuckerman.
Robinsii Oakes.
Najas L. Naiad.
flexilis (Willd.) Rostk. & Schmidt.

JUNCAGINACEAE

Scheuchzeria L.

palustris L. Belchertown ponds, Bradley pond, Springfield, S. Stebbins.

ALISMACEAE

Sagittaria L. Arrow-head.

latifolia Willd. Passing into many forms.

heterophylla Pursh.

graminea Michx.

Alisma L. Water Plantain.

Plantago-aquatica L.

HYDROCHARITACEAE

Elodea Michx. Water-weed.

canadensis Michx. Conn. river, etc.

Vallisneria [Mich] L. Tape Grass, Eel Grass.

spiralis L. Conn. river, etc.

GRAMINEAE

Andropogon [Roen] L. Beard Grass.

scoparius Michx.

virginicus L. Amherst.

furcatus Muhl.

Sorghastrum Nash.

nutan (L.) Nash. Indian Grass, Wood Grass.

Digitaria Scop. Finger Grass.

filiformis (L.) Koeler.

HUMIFUSA Pers. This and the preceding species constitute very troublesome lawn grasses.

SANGUINALIS (L.) Scop. Crab Grass.

Paspalum L.

setaceum Michx.

Panicum L. Panic Grass.

verrucosum Muhl. Springfield, island in Red House Pond.
Scribner & Merrill in *Rhodora*, Vol. III., p. 103.

capillare L. Old-witch Grass.

philadelphicum Bernh. Southwick, C. H. Bissell, *Rhodora*, V.
13, p. 54.

miliaceum L. European Millet. Waste places. Springfield,
Dr. W. H. Chapin.

dichotomiflorum Michx. Amherst, E. Tuckerman; Agawam,
Scribner & Merrill, *Rhodora*, Vol. III., p. 104.

virgatum L. Switch Grass.

agrostoides Spreng.

depauperatum Muhl.

- P. linearifolium** Scribn. Springfield, L. Andrews.
dichotomum L.
huachucae Ashe. var. *silvicola* Hitchc. & Chase.
Scribnerianum Nash. Mt. Holyoke, Scribner & Merrill in
Rhodora, Vol. III., p. 112.
xanthophysum Gray. Amherst, H. G. Jesup; Springfield, Dr.
 W. H. Chapin. See Scribner & Merrill in *Rho-*
dora, Vol. III., p. 109.
clandestinum L.
latifolium L.
Echinochloa Beauv.
 CRUSGALLI (L.) Beauv. Barnyard Grass.
frumentacea (Roxb.) Link.
Setaria Beauv. Bristly Foxtail Grass.
 GLAUCA (L.) Beauv. Foxtail, Pigeon Grass.
 VIRIDIS (L.) Beauv. Green Foxtail, Bottle Grass.
 ITALICA (L.) Beauv. German Millet or Hungarian Grass.
Cenchrus L. Sandbur, Bur Grass. Amherst, Hadley, Springfield.
carolinianus Walt.
Zizania (Gronov.) L. Indian Rice, Water Oats.
palustris L. Northampton, Tuckerman & Jesup; Long-
 meadow, C. S. Plumb; Springfield, Dr. W. H.
 Chapin; Amherst.
Leersia Swartz. Cut-grass, White Grass.
virginica Willd. White Grass.
oryzoides (L.) Swartz. Rice Cut-grass.
Phalaris L. Canary Grass.
canariensis L. In waste places.
arundinacea L. Reed Canary Grass. Generally distributed.
arundinacea L. var. *PICTA* L. Ribbon Grass. Persistent
 near old dwellings.
Anthoxanthum L. Sweet Vernal Grass.
 ODORATUM L.
Puelii Lecoq & Lamotte. Mass. Agr. College.
Hierochloe (Gmel.) R. Br. Holy Grass.
odorata (L.) Wahlenb. Vanilla Grass. Agawam, Dr. W. H.
 Chapin.
Oryzopsis Michx. Mountain Rice.
pungens (Torr.) Hitchc.
asperifolia Michx.
racemosa (Sm.) Ricker.
Aristida L. Triple-awned Grass.
dichotoma Michx. Poverty Grass.
purpurascens Poir. Mt. Holyoke, E. Hitchcock; W. Spring-
 field, Dr. J. W. Robbins.

- Muhlenbergia** Schreber.
sobolifera (Muhl.) Trin.
tenuiflora (Willd.) BSP.
sylvatica Torr.
mexicana (L.) Trin.
racemosa (Michx.) BSP.
Schreberi J. F. Gmel. Drop-seed, Nimble Will. Amherst, H. G. Jesup; South Hadley.
capillaris (Lam.) Trin. Hair Grass. Sugarloaf; Mt. Holyoke.
- Brachyelytrum** Beauv.
erectum (Schreb.) Beauv.
- Phleum** L.
 PRATENSE L. Timothy, Herd's Grass.
- Alopecurus** L. Foxtail Grass.
 PRATENSIS L. Meadow Foxtail.
geniculatus L. Floating Foxtail.
geniculatus L. var. *aristulatus* Torr. Amherst, etc. E. Tuckerman; also by H. G. Jesup.
- Sporobolus** R. Br. Drop-seed. Rush Grass.
vaginiflorus (Torr.) Wood.
uniflorus (Muhl.) Scribn. & Merr.
- Agrostis** L. Bent Grass.
 ALBA L. White Bent Grass.
 ALBA L. var. *VULGARIS* (With.) Thurb. Red Top.
hyemalis (Walt.) BSP.
perennans (Walt.) Tuckerm. Thin Grass.
 CANINA L. Rhode Island Bent Grass. In lawns, etc.
- Calamagrostis** Adans. Reed Bent Grass.
canadensis (Michx.) Beauv. Blue-joint Grass.
inexpansa Gray. Lock's Pond, Shutesbury; H. L. Clark, in *Rhodora*, Vol. I, p. 165.
cinnoidea (Muhl.) Barton.
- Cinna** L. Wood Reed Grass.
arundinacea L.
- Holcus** L.
 LANATUS L. Velvet Grass.
- Sphenopholis** Scribn.
obtusata (Michx.) Scribn.
pallens (Spreng.) Scribn.
palustris (Michx.) Scribn. Amherst, Hitchc. Catal.
- Trisetum** Persoon. Nonotuck, E. Tuckerman.
spicatum (L.) Richter. Deerfield, H. G. Jesup.
flavescens (L.) R. & S. Introduced in grass-seed.

Deschampsia Beauv.

flexuosa (L.) Trin. Common Hair Grass.

caespitosa (L.) Beauv. Hadley meadows, E. Tuckerman ; Mt. Toby, H. G. Jesup.

Avena (Tourn.) L. Oat.

sativa L. Waste places.

Arrhenatherum Beauv. Oat Grass.

elatius (L.) Beauv. Tall Oat Grass.

Danthonia DC. Wild Oat Grass.

spicata (L.) Beauv.

compressa Aust. Shutesbury, etc. H. G. Jesup.

sericea Nutt. Easthampton, Dr. N. A. Cobb.

Spartina Schreb. Cord or Marsh Grass.

Michauxiana Hitchc. Slough Grass. Shores of Connecticut River, E. Tuckerman.

Cynodon Richard. Bermuda or Scutch Grass.

Dactylon (L.) Pers. Amherst and Springfield.

Eleusine Gaertn. Goose Grass. Yard Grass.

indica Gaertn. Amherst, rare, E. Hitchcock ; Springfield, Mrs. M. E. Owen. Observed year after year.

Phragmites Trin. Reed.

communis Trin. South Amherst, E. Hitchcock.

Tridens R. & S.

flavus (L.) Hitchc. Tall Red Top. Sugarloaf, E. Hitchcock.

Eragrostis Beauv.

hypnoides (Lam.) BSP.

capillaris (L.) Nees.

pilosa (L.) Beauv. Amherst, E. Tuckerman ; Springfield, Dr. W. H. Chapin and elsewhere.

MEGASTACHYA (Koeler) Link.

minor Host. Amherst, rare, E. Tuckerman, 1875 ; more common since.

pectinacea (Michx.) Steud.

Briza L. Quaking Grass.

media L. Amherst, rare, E. Tuckerman, 1875.

Dactylis L. Orchard Grass.

GLOMERATA L.

Poa L. Meadow Grass. Spear Grass.

ANNUA L. Low Spear Grass.

COMPRESSA L. Canada Blue Grass. Wire Grass.

triflora Gilib. Fowl Meadow Grass.

pratensis L. June Grass, Spear Grass. Kentucky Blue Grass.

TRIVIALIS L. Rough-stalked Meadow Grass.

- P. alsodes* Gray. North Amherst, H. L. Clark, in *Rhodora*,
Vol. I, p. 165.
nemoralis L. Hitchc. Catal?
- Glyceria* R. Br. Manna Grass.
Torreyana (Spreng) Hitchc.
canadensis (Michx.) Trin. Rattlesnake Grass.
nervata (Willd.) Trin. Fowl Meadow Grass.
grandis Watson. Reed Meadow Grass.
pallida (Torr.) Trin.
fluitans (L.) R. Br.
acutiflora Torr. Amherst, E. Tuckerman; Springfield.
- Festuca* L. Fescue Grass.
octoflora Walt.
OVINA L. Sheep's Fescue.
OVINA L. var. *duriuscula* (L.) Hoch.
OVINA L. var. *CAPILLATA* (Lam.) Hoch.
ELATIOR L. Taller or Meadow Fescue.
nutans Spreng. Mt. Tom.
- Bromus* L. Brome Grass.
secalinus L. Cheat or Chess Grass. Grain fields; introduced in seed.
tectorum L. Waste places, local; more common near the coast.
ciliatus L.
Kalmii Gray. Wild Chess Grass.
- Nardus* L. Mat Grass.
stricta L. Amherst, E. Tuckerman, 1871; mowings, Mt. Hermon (Gill.) See Britton and Brown Flora, Vol. I, p. 224.
- Lolium* L. Darnel.
PERENNE L. Common Darnel, Perennial Ray or Rye Grass.
- Agropyron* Gaertn.
REPENS L. Beauv. Couch, Quitch, Quick or Witch Grass.
caninum (L.) Beauv. Awned Wheat Grass. Mt. Holyoke, Leverett, etc., E. Tuckerman.
- Elymus* L. Lyme Grass. Wild Rye.
virginicus L.
canadensis L.
striatus Willd.
- Hystrix* Moench. Bottle-brush Grass.
patula Moench.

CYPERACEAE

- Cyperus* [Tourn] L. Calingale.
diandrus Torr.
rivularis Kunth. Springfield, L. Andrews.

- C. aristatus** Rottb.
dentatus Torr.
esculentus L. Occasionally in cultivated fields.
erythrorhizus Muhl. Herb. Spfld Sci. Museum. Agawam river,
 Mrs. M. L. Owen
ferax Rich. Hadley meadows, H. G. Jesup.
strigosus L.
filiculmis Vahl.
- Dulichium** Pers.
arundinaceum (L.) Britton.
- Eleocharis** R. Br. Spike Rush.
Robbinsii Oakes. Ponds.
olivacea Torr. Leverett pond, H. G. Jesup.
diandra C. Wright.
ovata (Roth.) R. & S.
obtusa (Willd.) Schultes.
palustris (L.) R. & S.
acicularis (L.) R. & S.
tenuis (Willd.) Schultes.
intermedia (Muhl.) Schultes.
- Psilocarya** Torr. Bald Rush.
scirpoides Torr. Pond shores, Springfield, Fernald; in *Rhodora*, Vol. X., p. 142.
- Stenophyllus** Raf.
capillaris (L.) Britton.
- Fimbristylis** Vahl.
Frankii Steud.
- Scirpus** [Tourn.] L. Bulrush or Club Rush.
planifolius Muhl.
hudsonianus (Michx.) Fernald.
subterminalis Torr. Aquatic.
debilis Pursh.
americanus Pers.
Torreyi Olney. Pond in Hadley meadows, etc., E. Tuckerman.
validus Vahl. Great Bulrush.
fluviatilis (Torr.) Gray. River Bulrush. South Hadley.
rubrotinctus Fernald. Amherst, H. L. Clark; in *Rhodora*, Vol. I, p. 165. Springfield, L. Andrews.
sylvaticus L. Herb. Spfld Sci. Museum. Springfield, L. Andrews.
atrovirens Muhl.
georgianus Harper. Springfield, L. Andrews.
polyphyllus Vahl.
lineatus Michx.
cyperinus (L.) Kunth. Wool Grass.

- S. cyperinus* var. *pelius* Fernald. Springfield, L. Andrews.
cyperinus (L.) Kunth. var. *condensatus* Fernald. Herb. Spfld
 Sci. Museum. Springfield, L. Andrews.
atrocinctus Fernald. Springfield, L. Andrews.
- Eriophorum* L. Cotton Grass.
callitrix Cham. Hare's Tail. Belchertown south pond, H. G.
 Jesup.
gracile Roth. Leverett, etc., E. Tuckerman; Amherst, H. G.
 Jesup.
tenellum Nutt. Springfield, L. Andrews.
angustifolium Roth.
viridi-carinatum (Engelm.) Fernald. Buckland, open wet grounds.
 F. F. Forbes; in *Rhodora*, Vol. VII, p. 91.
virginicum L.
- Fuirena* Rottb. Umbrella Grass.
squarrosa Michx. Indian Orchard, Mrs. M. L. Owen.
- Hemicarpha* Nees & Arn.
micrantha (Vahl.) Britton.
- Rynchospora* Vahl. Beak Rush.
macrostachya Torr. Belchertown and Leverett, E. Hitchcock,
 and later collectors: Franklin Co., Fernald; in
Rhodora, Vol. X., p. 142.
fusca (L.) Ait. f. Leverett pond, E. Tuckerman, H. G. Jesup.
alba (L.) Vahl.
glomerata (L.) Vahl.
- Cladium* P. Browne. Twig Rush.
mariscoides (Muhl.) Torr. Belchertown, Leverett, etc., E. Hitch-
 cock; Amherst, H. G. Jesup, and later collectors.
- Scleria* Berg. Nut Rush.
triglomerata Michx. Amherst, H. G. Jesup; Hadley, etc., E.
 Hitchcock.
- Carex* [Ruppius] L. Sedge.
scoparia Schkuhr.
scoparia var. *condensa* Fernald. Springfield, L. Andrews.
tribuloides Wahlenb.
siccata Dewey. Westfield, Rev. Dr. Davis.
mirabilis Dewey.
straminea Willd.
hormathodes Fernald.
festucea Schkuhr.
festucea Schkuhr. var. *brevior* (Dewey) Fernald. Herb. Spfld
 Sci. Museum.
adusta Boott. Hadley, etc., E. Tuckerman.
stellulata Good.

- C. *stellulata* var. *angustata* Carey. Springfield, L. Andrews.
scirpoides Schkuhr.
canescens L.
canescens L. var. *disjuncta* Fernald. Herb. Spfld. Sci. Museum.
brunnescens Poir.
bromoides Schkuhr.
Deweyana Schwein.
tenuiflora Wahlenb. Southampton.
trisperma Dewey.
tenella Schkuhr.
rosea Schkuhr.
retroflexa Muhl.
Muhlenbergii Schkuhr. Hadley, etc., E. Tuckerman.
Muhlenbergii Schkuhr. var. *enervis* Boott. Herb. Spfld Sci. Museum.
cephalophora Muhl.
sparganioides Muhl.
vulpinoidea Michx.
diandra Schrank. Deerfield, E. Hitchcock.
diandra Schrank. var. *ramosa* (Boott.) Fernald. Deerfield, E. Hitchcock.
stipata Muhl.
crinita Lam.
torta Boott.
stricta Lam.
aurea Nutt. Conway, H. G. Jesup.
pauciflora Lightf. Ashfield, Porter.
leptalea Wahlenb.
polygama Schkuhr.
triceps Michx. var. *hirsuta* (Willd.) Bailey.
virescens Muhl.
formosa Dewey. Amherst, Hitchc. Catal.;
Davisii Schwein & Torr. North Hadley, E. Tuckerman.
gracillima Schwein.
Backii Boott. Mt. Tom, Prof. W. D. Whitney.
umbellata Schkuhr.
varia Muhl.
novae-angliae Schwein.
pennsylvanica Lam.
pubescens Muhl.
livida (Wahlenb.) Willd.
tetanica Schkuhr. Amherst, Hitchc. Cata'.
polymorpha Muhl. Westfield, Rev. Dr. Davis.
pallescent L.

- C. limosa** L. Ashfield, Porter.
prasina Wahlenb.
pedunculata Muhl. Mt. Holyoke, etc., E. Tuckerman; Mt. Toby,
 H. G. Jesup.
plantaginea Lam. Mt. Toby, H. G. Jesup; Rocky Mountain,
 Greenfield, Dr. N. A. Cobb.
platyphylla Carey. Mt. Holyoke, etc., E. Tuckerman and H. G.
 Jesup; Mt. Toby, H. G. Jesup.
laxiculmis Schwein. Amherst, etc.
digitalis Willd.
laxiflora Lam.
laxiflora Lam. var. *patulifolia* (Dewey) Carey.
laxiflora Lam. var. *blanda* (Dewey) Boott.
conoidea Schkuhr.
grisea Wahlenb.
glaucodea Tuckerm. Mt. Holyoke, etc., E. Tuckerman and H.
 G. Jesup.
granularis Muhl. Amherst, E. Hitchcock, and northward.
flava L.
longirostris Torr.
arctata Boott. Leyden, E. Hitchcock; Easthampton, Dr. N. A.
 Cobb.
debilis Michx.
debilis Michx. var. *Rudgei* Bailey.
scabrata Schwein.
filiformis L.
lanuginosa Michx.
vestita Willd.
trichocarpa Muhl. Amherst, Hitchc. Catal.
riparia W. Curtis.
squarrosa L. Hadley, E. Hitchcock; South Hadley, H. G.
 Jesup.
comosa Boott.
hystericina Muhl.
lurida Wahlenb. Fernald in *Rhodora*, Vol. III, p. 56.
lurida X *lupulina* Bailey. Fernald in *Rhodora*, Vol. III, p. 56.
retrorsa Schwein.
lupulina Muhl. Amherst, Fernald; in *Rhodora*, Vol. III, p. 56.
intumescens Rudge.
folliculata L.
vesicaria L.
rostrata Stokes var. *utriculata* (Boott.) Bailey.
Tuckermani Dewey.

ARACEAE

- Arisaema* Martins. Indian Turnip. Dragon Arum.
triphyllum (L.) Schott. Indian Turnip. Jack-in-the-Pulpit.
Dracontium (L.) Schott. Green Dragon. Dragon Root. Deerfield. *Rhodora*, Vol. XII, p. 169. Sunderland, Belchertown, South Hadley. This rare plant is now extinct in some of the former stations.
- Peltandra* Raf. Arrow Arum.
virginica (L.) Kunth. Belchertown.
- Calla* L. Water Arum.
palustris L.
- Symplocarpus* Salisb. Skunk Cabbage.
foetidus (L.) Nutt.
- Orontium* L. Golden Club.
aquaticum L. Hampton pond, E. Tuckerman; Southwick, Porter; Springfield, S. Stebbins. Rare; Westfield; Slow brook, east of Mt. Tom, Dr. N. A. Cobb.
- Acorus* L. Sweet Flag. Calamus.
Calamus L.

LEMNACEAE

- Spirodela* Schleiden.
polyrhiza (L.) Schleid.
- Lemna* L. Duckweed. Duck's-meat.
trisulca L.
minor L.

ERIOCAULACEAE

- Eriocaulon* [Gronov.] L. Pipewort.
articulatum (Huds.) Morong.

XYRIDACEAE

- Xyris* [Gronov.] L. Yellow-eyed Grass.
montana Ries. Lock's pond, Shutesbury, etc.; E. Tuckerman, H. G. Jesup.
caroliniana Walt. Indian Orchard. Herb. Spfld Sci. Museum.
flexuosa Muhl. Shutesbury, H. G. Jesup. Bay St., Springfield, etc.

COMMELINACEAE

- Tradescantia* (Rupp.) L. Spiderwort.
virginiana L. Occasionally escaped.
- Commelina* (Plum.) L.
 COMMUNIS L. Springfield, L. Andrews.

PONTEDERIACEAE

- Pontederia* L. Pickerel Weed.
cordata L.
cordata L. var. *angustifolia* Torr.
Heteranthera R. and P. Mud Plantain.
dubia (Jacq.) MacM.

JUNCACEAE

- Juncus* [Tourn.] L. Rush. Bog Rush.
bufonius L.
tenuis Willd.
filiformis L. Hadley meadows, E. Tuckerman.
effusus L. Common or Soft Rush.
brevicaudatus (Engelm.) Fernald. Mt. Toby, H. G. Jesup. Spring-field, L. Andrews.
canadensis J. Gay. Mt. Toby, H. G. Jesup.
pelocarpus Meyer. Shores of Lock's pond, etc., E. Tuckerman;
 Leverett pond, H. G. Jesup. Indian Orchard.
nodosus L. Hockanum, Whitmore's Ferry, etc., E. Tuckerman.
acuminatus Michx.
articulatus L. Mill Hollow, Amherst, etc., E. Tuckerman and H. G. Jesup.
marginatus Rostk. Amherst, etc., E. Tuckerman.
Luzula DC. Wood Rush.
saltuensis Fernald.
campestris (L.) DC.

LILIACEAE

- Veratrum* [Tourn.] L. False Hellebore.
viride Ait. American White Hellebore. Indian Poke.
Uvularia L. Bellwort.
perfoliata L.
Oakesia Watson.
sessilifolia (L.) Watson.
Allium [Tourn.] L. Onion. Garlic.
tricoccum Ait. Wild Leek.
canadense L. Wild Garlic.
Hemerocallis L. Day Lily.
 FULVA L. Common Day Lily. Escaped from cultivation.
Lilium L. Lily.
philadelphicum L. Wild Orange-red Lily or Wood Lily.
superbum L. Turk's-cap Lily.
canadense L. Wild Yellow Lily.

- Erythronium* L. Dog's tooth Violet.
americanum Ker. Yellow Adder's Tongue.
- Ornithogalum* [Tourn.] L. Star of Bethlehem.
umbellatum L. More or less common throughout the range.
- Muscari* [Tourn.] Mill. Grape Hyacinth.
botryoides (L.) Mill. Amherst. Persistent for many years.
- Asparagus* [Tourn.] L. Asparagus.
officinalis L. Garden Asparagus.
- Clintonia* Raf.
borealis (Ait.) Raf.
- Smilacina* Desf. False Solomon's Seal.
racemosa (L.) Desf. False Spikenard.
stellata (L.) Desf.
trifolia (L.) Desf. Pelham and Cummington, E. Hitchcock.
 Plumtrees, Sunderland.
- Maianthemum* (Weber in.) Wiggers.
canadense Desf.
- Streptopus* Michx. Twisted Stalk.
amplexifolius (L.) DC. Pelham, Deerfield, E. Tuckerman. Mt. Toby.
roseus Michx. Mt. Toby, etc.
- Polygonatum* [Tourn.] Hill. Solomon's Seal.
biflorum (Walt.) Ell. Small Solomon's Seal.
commutatum (R. and S.) Dietr. Great Solomon's Seal.
- Convallaria* L. Lily of the Valley.
majalis L. Escaped from cultivation.
- Medeola* [Gronov.] L. Indian Cucumber Root.
virginiana L.
- Trillium* L. Wake Robin. Birthroot.
erectum L.
grandiflorum (Michx.) Salisb. Pelham, E. Hitchcock. Not found in recent years.
cernuum L.
undulatum Willd. Painted Trillium.
- Aletris* L. Colic Root.
farinosa L.
- Smilax* [Tourn.] L. Green Brier.
herbacea L. Carrion Flower.
rotundifolia L. Common Green Brier.

AMARYLLIDACEAE

- Hypoxis* L. Star Grass.
hirsuta (L.) Coville.

IRIDACEAE

- Iris* [Tourn.] L. Fleur-de-lis.
versicolor L. Larger Blue Flag.
germanica L. Fleur-de-lis. Mt. Toby, H. L. Clark in *Rhodora*,
 Vol. I, page 165.
Belamcanda Adans. Blackberry Lily.
chinensis (L.) DC. Escaped, South Hadley, Mrs. C. S. Phelps.
Sisyrinchium L. Blue-eyed Grass.
mucronatum Michx.
angustifolium Mill.
gramineum Curtis.
atlanticum Bicknell.

ORCHIDACEAE

- Cypripedium* L. Lady's Slipper. Moccasin Flower.
arietinum R. Br. Ram's Head Lady's Slipper. Mt. Toby, W. S. Clark. This is the only station which we know in this region, and it is often found here quite plentifully.
parviflorum Salisb. Smaller Yellow Lady's Slipper. Mt. Holyoke, E. Tuckerman; Shelburne, F. G. Tuckerman; Hawley, Buckland, W. D. Forbes; Northfield, Shutesbury, etc. A cross apparently between *parviflorum* and *pubescens* is found on the banks of the Conn. river at Gill, E. H. Sharpe.
parviflorum Salisb. var. *pubescens* (Willd.) Knight. Larger Yellow Lady's Slipper.
hirsutum Mill. Showy Lady's Slipper. Deerfield, E. Hitchcock; Easthampton, W. S. Clark; Mt. Holyoke, H. G. Jesup; Hawley, W. D. Forbes; Mt. Toby, C. S. Plumb, 1880. This plant has become exterminated in many of the stations enumerated above due to the activities of professional collectors.
acaule Ait. Stemless Lady's Slipper. A white flowered form is frequently found.
Orchis [Tourn.] L.
spectabilis L. Showy Orchis.
Habenaria Willd. Rein Orchis. Fringed Orchis.
bracteata (Willd.) R. Br. Rather common in mountainous regions.
flava (L.) Gray.
hyperborea (L.) R. Br.
dilatata (Pursh.) Gray. Plumtrees Swamp, Sunderland, etc.

H. clavellata (Michx.) Spreng.

Hookeri Torr.

orbiculata (Pursh.) Torr.

ciliaris (L.) R. Br. Yellow Fringed Orchis. East Amherst, C.H. Hitchcock; Easthampton, W. S. Clark. Rare and extremely local plant; not collected for several years in this region.

blephariglottis (Willd.) Torr. White Fringed Orchis.

blephariglottis (Willd.) Torr. var. *holopetala* (Lindl.) Gray. Hawley, W. D. Forbes.

blephariglottis (Willd.) Torr. X *H. lacera* (Michx.) R. Br. A form has been noted by W. D. Forbes in Hawley, a cross between the above named.

lacera (Michx.) R. Br. Ragged Fringed Orchis.

psycodes (L.) Sw. This species much resembles the following. Both are called Purple Fringed Orchis.

fimbriata (Ait.) R. Br.

Pogonia Juss.

ophioglossoides (L.) Ker.

trianthophora (Siv.) BSP. Deerfield, E. Hitchcock; Conway.

verticillata (Willd.) Nutt. Amherst, Deerfield, E. Tuckerman; Mt. Holyoke (Notch); Longmeadow, Springfield, West Northfield; N. Leverett, Miss Ruby Hemenway; Easthampton, W. S. Clark, 1844; Belcher-town, Mrs. E. W. Carpenter and Marion Thompson.

affinis Aust. Holyoke range, H. L. Clark; in *Rhodora*, Vol. I, p. 165.

Calopogon R. Br.

pulchellus (Sw.) R. Br.

Arethusa [Gronov.] L.

bulbosa L.

Spiranthes Richard. Ladies' Tresses.

gracilis (Bigelow) Beck.

vernalis Engelm. and Gray. Buckland, W. D. Forbes.

lucida (H. H. Eaton) Ames. Amherst, G. L. Goodale; Conway, H. G. Jesup; Buckland, W. D. Forbes; Colrain, E. F. Williams.

cernua (L.) Richard.

Epipactis (Haller) Boehm. Rattlesnake Plantain.

repens (L.) Crantz.

repens (L.) Crantz. var. *ophioides* (Fernald) A. A. Eaton. Southwick; M. L. Fernald in *Rhodora*, Vol. I, p. 6.

tesselata (Lodd) A. A. Eaton. Springfield, L. Andrews.

decipiens (Hook) Ames. Buckland, W. D. Forbes. But one specimen of the plant found by Mr. Forbes.

pubescens (Willd.) A. A. Eaton.

- Listera** R. Br. Twayblade.
cordata (L.) R. Br. Plainfield, Porter.
- Corallorrhiza** [Haller] R. Br. Coral Root.
trifida Chatelain. Amherst, W. S. Clark; Buckland, W. D. Forbes; Sunderland, Plumtrees Swamp; Leverett, Mt. Toby and Pelham.
maculata Raf. Easthampton, E. Hitchcock; Mt. Toby, H. G. Jesup; N. Leverett, R. E. Torrey; Buckland, W. D. Forbes; Mt. Holyoke, Amherst.
odontorrhiza Nutt.
- Microstylis** (Nutt.) Eaton. Adder's Mouth.
monophyllos (L.) Lindl. Hawley, W. D. Forbes.
unifolia (Michx.) BSP. Deerfield, E. Hitchcock; Shutesbury, E. H. Sharpe; Springfield, Dr. W. H. Chapin; Belcher-town, R. E. Torrey.
- Liparis** Richard. Twayblade.
liliifolia (L.) Richard.
Loeselii (L.) Richard. Plumtrees swamp, Sunderland, A. V. Osmun; Amherst, H. L. Clark; Mt. Toby.
- Aplectrum** (Nutt.) Torr. Putty Root. Adam-and-Eve.
hyemale (Muhl.) Torr. Mt. Holyoke, Conway, E. Hitchcock; Buckland, W. D. Forbes.
- Tipularia** Nutt. Crane Fly Orchis.
discolor (Pursh) Nutt. Deerfield, E. Hitchcock. Probably not in our range; never verified by other collectors.
-

DICOTYLEDONEAE

SALICACEAE

- Salix** [Tourn.] L. Willow. Osier.
nigra Marsh. Black Willow.
nigra Marsh. var. *falcata* (Pursh) Torr. Springfield, L. Andrews.
lucida Muhl. Shining Willow.
FRAGILIS L. Crack Willow.
ALBA L. White Willow.
ALBA L. var. **VITELLINA** (L.) Koch.
Babylonica L. Weeping Willow. Sometimes escapes to river banks, etc.
longifolia Muhl. Sand Bar Willow. Islands of Conn. river, H. G. Jesup.
cordata Muhl.

- S.** *pedicellaris* Pursh. Deerfield, E. Tuckerman.
discolor Muhl. Glaucous Willow.
humilis Marsh. Prairie Willow.
tristis Ait. Dwarf Gray Willow.
sericea Marsh. Silky Willow.
rostrata Richards.
 PURPUREA L. Purple Willow. Near Conway, H.G. Jesup; Glenwood, Springfield.
Populus [Tourn.] L. Poplar. Aspen.
alba L. White Poplar. Silver Leaved Poplar.
tremuloides Michx. American Aspen.
grandidentata Michx. Large-toothed Aspen.
balsamifera L. Balsam Poplar.
candicans Ait. Balm of Gilead.
deltoides Marsh. Cottonwood. Necklace Poplar.
 NIGRA L. Black Poplar. Occasionally spreading by root suckers. var. ITALICA Du Roi. Rarely, if ever, spreading.

MYRICACEAE

Myrica L.

- Gale* L. Sweet Gale. Gill, E. H. Sharpe; Shutesbury, R. E. Torrey; Belchertown, etc.
carolinensis Mill. Bayberry. Wilbraham, E. Longfellow, Dr. W. H. Chapin; Conway, etc. Much more common near the coast.
asplenifolia L. Sweet Fern.

JUGLANDACEAE

Juglans L. Walnut.

- cinerea* L. Butternut.
nigra L. Black Walnut. Native in Amherst, etc., but rare in our range.

Carya Nutt. Hickory.

- ovata* (Mill.) K. Koch. Shagbark Hickory.
alba (L.) K. Koch. Mocker Nut.
glabra (Mill.) Spach. Pig Nut.
cordiformis (Wang.) K. Koch. Bitter Nut.

BETULACEAE

- Corylus** [Tourn.] L. Hazelnut. Filbert.
americana Walt. Hazelnut. Prof. S. T. Maynard discovered
 some years ago a purple-leaved hazelnut near
 Mt. Toby, which has been propagated as a horti-
 cultural variety.
rostrata Ait. Beaked Hazelnut.
- Ostrya** (Mich.) Scop. Leverwood.
virginiana (Mill.) K. Koch. Hop Hornbeam.
- Carpinus** [Tourn.] L. Ironwood.
caroliniana Walter. Blue or Water Beech.
- Betula** [Tourn.] L. Birch.
lenta L. Sweet or Black Birch.
lutea (Michx.) f. Yellow or Gray Birch.
populifolia Marsh. White or Gray Birch.
alba L. var. *papyrifera* (Marsh) Spach. Paper, Canoe or White
 Birch.
pumila L. Low or Swamp Birch. Amherst region. Eaton Man.
- Alnus** [Tourn.] Hill. Alder.
crispa (Ait.) Pursh. Conway; Deerfield, H. G. Jesup.
mollis Fernald. Downy Green Alder. Buckland, M. L. Fernald in
Rhodora, Vol. VI, p. 163.
incana (L.) Muench. Speckled or Hoary Alder.
rugosa (Du Roi) Spreng. Smooth Alder.

FAGACEAE

- Fagus** [Tourn.] L. Beech.
grandifolia Ehrh. More common on our western border, where
 it forms large forests.
- Castanea** [Tourn.] Hill. Chestnut.
dentata (Marsh.) Borkh.
- Quercus** [Tourn.] L. Oak.
alba L. White Oak.
bicolor Willd. Swamp White Oak.
prinoides Willd. Chinquapin Oak.
Prinus L. Chestnut Oak.
rubra L. Red Oak.
palustris Muench. Pin Oak. More or less common in Conn.
 Valley lowlands.
coccinea Muench. Scarlet Oak.
velutina Lam. Yellow-barked or Black Oak.
ilicifolia Wang. Bear or Black Scrub Oak.

URTICACEAE

- Ulmus* [Tourn.] L. Elm.
 fulva Michx. Slippery Elm. Local.
 americana L. American Elm.
- Celtis* [Tourn.] L. Nettle-tree. Hackberry.
 occidentalis L. Sugarberry. Local.
 occidentalis L. var. *pumila* Muhl. Mt. Holyoke, H. G. Jesup.
 occidentalis L. var. *crassifolia* (Lam.) Gray. Hadley, E. Tuckerman; Amherst.
- Cannabis* [Tourn.] L. Hemp.
 SATIVA L.
- Humulus* L. Hop.
 Lupulus L. Common Hop.
 japonicus Sieb. and Zucc. Clay-pit dumping ground, Springfield, L. Andrews.
- Morus* [Tourn.] L. Mulberry.
 rubra L. Red Mulberry. Uncommon.
 ALBA L. White Mulberry. Amherst, etc.
- Urtica* [Tourn.] L. Nettle.
 gracilis Ait.
 URENS L.
- Laportea* Gaud. Wood Nettle.
 canadensis (L.) Gaud.
- Pilea* Lindl. Richweed.
 pumila (L.) Gray.
- Boehmeria* Jacq. False Nettle.
 cylindrica (L.) Sw.
- Parietaria* [Tourn.] L. Pellitory.
 pennsylvanica Muhl. Sugar Loaf, Mt. Toby, etc.

SANTALACEAE

- Comandra* Nutt. Bastard Toad-flax.
 umbellata (L.) Nutt.

LORANTHACEAE

- Arceuthobium* Bieb.
 pusillum Peck. Dwarf Mistletoe. Parasitic on Black Spruce.

ARISTOLOCHACEAE

- Asarum* [Tourn.] L. Wild Ginger.
 canadense L.
- Aristolochia* [Tourn.] L. Birthwort.
 Serpentaria L. Virginia Snakeroot. Included in Dr. Tuckerman's list as from Turners Falls, but doubtful.

POLYGONACEAE

Rumex L. Dock. Sorrel.

Patentia L. Patience Dock. Rather uncommon.

Britannica L. Great Water Dock. Amherst, etc., H. G. Jesup.

CRISPUS L. Yellow Dock.

SANGUINEUS L. See Britton and Brown's Ill. Flora of n. U. S. and Can., Vol. I, p. 551.

ELONGATUS Guss. Orchard St., Springfield, L. Andrews.

altissimus Wood. Pale Dock. Herb. Spfld Sci. Museum.

verticillatus L. Swamp Dock. Granby, H. G. Jesup.

OBTUSIFOLIUS L. Bitter Dock.

ACETOSA L. Garden Sorrel. Grass land. Common at Amherst, etc.

HASTATULUS Baldw. Roadsides, Amherst, S. T. Maynard.

ACETOSELLA L. Field or Sheep Sorrel.

Polygonum [Tourn.] L. Knotweed.

aviculare L.

aviculare L. var. *vegetum* Ledeb.

erectum L.

tenue Michx.

lapathifolium L.

amphibium L.

Muhlenbergii (Meisn.) Wats. Springfield, L. Andrews.

pennsylvanicum L.

Careyi Olney. East Amherst, etc., C. H. Hitchcock.

Hydropiper L. Common Smartweed.

acre HBK. Water Smartweed.

acre HBK. var. *leptostachyum* Meisn. Herb. Spfld Sci. Museum, L. Andrews.

ORIENTALE L. Prince's Feather.

PERSICARIA L. Lady's Thumb. Common in barnyards, etc.

hydropiperoides Michx. Mild Water Pepper.

virginianum L.

arifolium L. Halberd-leaved Tear-thumb.

sagittatum L. Arrow-leaved Tear-thumb.

CONVOLVULUS L. Black Bindweed.

cilinode Michx.

scandens L. Climbing False Buckwheat.

cuspidatum Sieb. and Zucc. Springfield, L. Andrews. Two species, *P. Sachalinense* Schmidt and *cuspidatum*, have been cultivated at the Mass. Agricultural College for 15 years. The latter is well established; the former, termed Sacaline, does not show a tendency to become so. Both were introduced from Japan as forage plants.

Fagopyrum [Tourn.] L. Buckwheat.

ESCULENTUM Muench. Buckwheat. In waste places and persisting after cultivation.

Polygonella Michx.

articulata (L.) Meisn.

CHENOPODIACEAE

Kochia Roth.

Scoparia (L.) Schrad. Springfield, escaped from gardens, L. Andrews.

Chenopodium [Tourn.] L.

BOTRYS L. Jerusalem Oak.

ambrosioides L. Mexican Tea. Springfield, L. Andrews.

capitatum (L.) Asch. Strawberry Blite. Rare, E. Hitchcock.

HYBRIDUM L. Maple-leaved Goosefoot.

ALBUM L. Lamb's Quarters.

ALBUM L. var. VIRIDE (L.) Moq. Springfield, L. Andrews.

Salsola L. Saltwort.

Kali L. var. *tenuifolia* G. F. W. Mey. Russian Thistle. Occasionally on railroad banks, etc.; the seed coming in with grass seed and also by western freight. Slightly established at B. & M. R. R. station, Amherst, S. C. Brooks (1910), and at Springfield, Dr. W. H. Chapin.

AMARANTHACEAE

Amaranthus [Tourn.] L. Amaranth.

RETROFLEXUS L. Green Amaranth; Pigweed.

hybridus L.

hybridus L. forma *hypochondriacus* L. Green Amaranth. Springfield, L. Andrews.

paniculatus L. Purple Amaranth. Springfield, L. Andrews.

GRAECIZANS L. Tumble Weed.

spinousus L. Thorny Amaranth. Herb. Spfld Sci. Museum, and Herb. Mt. Holyoke College.

PHYTOLACCACEAE

Phytolacca [Tourn.] L. Pokeweed.

decandra L.

NYCTAGINACEAE

Oxybaphus L' Her.

nyctagineus (Michx.) Sweet. Springfield, L. Andrews.

ILLECEBRACEAE

Scleranthus L. Knawel.

ANNUUS L.

Anychia Michx. Forked Chickweed.

canadensis (L.) BSP.

AIZOACEAE

Mollugo L. Indian Chickweed.

VERTICILLATA L. Carpet Weed.

CARYOPHYLLACEAE

Spergularia J. and C. Presl. Sand Spurrey.

rubra (L.) J. and C. Presl. Common on roadsides.

Spergula L.

ARVENSIS L. Corn Spurrey.

Sagina L. Pearlwort.

decumbens (Ell.) T. and G. Springfield, M. L. Owen (1883); Amherst, H. G. Jesup.

procumbens L.

Arenaria L. Sandwort.

lateriflora L.

SERPILLIFOLIA L. Thyme-leaved Sandwort.

stricta Michx.

Stellaria L. Chickweed. Starwort.

borealis Bigel.

uliginosa Murr. South Deerfield, H. G. Jesup.

longifolia Muhl.

GRAMINEA L. Amherst, etc.; now common.

MEDIA (L.) Cyrill. Common Chickweed.

Cerastium L. Mouse-ear Chickweed.

arvense L. Field Mouse-ear Chickweed. Plumtrees, Sunderland; Mt. Toby.

arvense L. var. *oblongifolium* (Torr.) Hollick and Britton. Mt. Tom, June, 1882; Herb. Mt. Holyoke College.

VULGATUM L. Common Mouse-ear Chickweed. Now very common, but included by mistake in Prof. Tuckerman's list; he not having observed it in 1875.

VISCOSUM L.

nutans Raf. Hadley, etc.

Agrostemma L. Corn Cockle.

Githago L. In grain fields, etc.

Lychnis [Tourn.] L. Campion.

FLOS-CUCULI L. Ragged Robin. Found in grass lands. Amherst, etc. Spreading, and becoming well established.

DIOICA L. Red Campion. Roadsides, etc.

alba Mill. White Campion. Amherst, A. V. Osmun. Springfield, L. Andrews.

Silene L. Catchfly.

antirrhina L. Sleepy Catchfly.

Armeria L. Sweet William Catchfly. Springfield, L. Andrews.

noctiflora L. Night-flowering Campion.

pennsylvanica Michx. Wild Pink.

stellata (L.) Ait. f. Starry Campion. South Hadley.

LATIFOLIA (Mill.) Britten & Rendle. Bladder Campion. Amherst, etc.

Saponaria L.

OFFICINALIS L. Bouncing Bet.

Gypsophila L.

muralis L. Springfield, etc.

paniculata L. Tall Gypsophyll. Springfield, L. Andrews.

See Britton & Brown's *Illustrated Flora*, Vol. II, p. 17.

Dianthus L. Pink. Carnation.

ARMERIA L. Deptford Pink.

PORTULACACEAE

Claytonia [Gronov.] L. Spring Beauty.

virginica L.

caroliniana Michx. Amherst, H. G. Jesup.

Portulaca [Tourn.] L. Purslane.

OLERACEA L. Common Purslane. A pernicious weed.

grandiflora Hook. Occasionally escaped.

CERATOPHYLLACEAE

Ceratophyllum L. Hornwort.

demersum L. Ponds, etc.

NYMPHAEACEAE

Nymphaea [Tourn.] L. Yellow Pond Lily. Spatter-dock.

advena Ait. Cow Lily.

microphylla Pers. Conn. river, ponds, etc.

Castalia Salisb. Water Lily.

tetragona Georg. Pansy Park, Belchertown. Escaped from cultivation. L. W. Goodell.

odorata (Ait.) Woodville & Wood. Sweet-scented Water Lily.

Brasenia Schreber. Water Shield.

Schreberi Gmel.

RANUNCULACEAE

Ranunculus [Tourn.] L. Crowfoot. Buttercup.

circinatus Sibth. Stiff Water Crowfoot. Belchertown; Herb. Mt. Holyoke College.

aquatis L. var. *capillaceus* DC. Common White Water Crowfoot.

delphinifolius Torr. Yellow Water Crowfoot.

laxicaulis (T. & G.) Darby. Water Plaintain. Spearwort.

Flammula L. var. *reptans* (L.) Mey. Creeping Spearwort. Shore of Conn. river.

sceleratus L. Cursed Crowfoot.

abortivus L. Small-flowered Crowfoot.

recurvatus Poir. Hooked Crowfoot.

fascicularis Muhl. Early Crowfoot.

septentrionalis Poir. Swamp Buttercup.

hispidus Michx. Longmeadow; Herb. Spfld Sci. Museum.

pennsylvanicus L. f. Bristly Crowfoot.

BULBOSUS L. Bulbous Buttercup.

ACRIS L. Tall Buttercup.

ACRIS L. var. **STEVENI** (Andrz.) Lange. Northampton; M. L. Fernald in *Rhodora*, Vol. I, p. 229.

Thalictrum [Tourn.] L. Meadow Rue.

dioicum L. Early Meadow Rue.

polygamum Muhl. Tall Meadow Rue.

Anemonella Spach.

thalictroides (L.) Spach. Rue Anemone.

Hepatica (Rupp.) Hill. Liverleaf. Hepatica.

triloba Chaix.

acutiloba DC. Conway, etc., H. G. Jesup; Amherst, E. L. Morris; Mt. Holyoke, etc.

Anemone [Tourn.] L. Anemone.

cylindrica Gray. Mt. Toby, H. G. Jesup, Aug., 1872; Sunderland.

virginiana L.

canadensis L. South Hadley, G. L. Goodale.

quinquefolia L. Wood Anemone.

- Clematis* L. Virgin's Bower.
virginiana L.
verticillaris DC. Greenfield, F. G. Tuckerman; Notch, Mt. Holyoke; Table Mountain, Mt. Toby; Mt. Tom; South Hadley; Rattlesnake Gutter, Leverett.
- Caltha* [Rupp.] L. Marsh Marigold.
palustris L.
- Coptis* Salisb. Goldthread.
trifolia (L.) Salisb.
- Aquilegia* [Tourn.] L. Columbine.
canadensis L. Wild Columbine.
- Cimicifuga* L. Bugbane.
racemosa (L.) Nutt. Black Snakeroot. Black Cohosh. Goshen, E. Hitchcock.
- Actaea* L. Baneberry. Cohosh.
rubra (Ait.) Willd. Red Baneberry.
alba (L.) Mill. White Baneberry.

MAGNOLIACEAE

- Magnolia* L.
tripetala L. Umbrella Tree. Dr. W. H. Chapin has observed several of these trees, which have existed for a number of years on the shores of a pond in Springfield; and also in Edgewood Swamp stands a tree about nine years old. Both these stations are at least two miles away from any cultivated *M. tripetala* trees, and were probably seeded in through the agency of birds.
- Liriodendron* L. Tulip Tree.
Tulipifera L. Deerfield, E. Hitchcock; Gill, Bernardston, Southampton, Agawam, Huntington, etc.

MENISPERMACEAE

- Menispermum* [Tourn.] L. Moonseed.
canadense L.

BERBERIDACEAE

- Podophyllum* L. May Apple. Mandrake.
peltatum L. South Amherst, E. Hitchcock.
- Caulophyllum* Michx. Blue Cohosh.
thalictroides (L.) Michx. Pappoose Root.
- Berberis* [Tourn.] L. Barberry.
 VULGARIS L. Common Barberry. Pastures, etc. More common near the coast.

LAURACEAE

Sassafras Nees.

variifolium (Salisb.) Ktze.

Benzoin Fabric. Wild Allspice. Fever Bush.

aestivale (L.) Nees. Spice Bush. Benjamin Bush.

PAPAVERACEAE

Sanguinaria (Dill.) L. Blood Root.

canadensis L.

Chelidonium [Tourn.] L. Celandine.

MAJUS L.

FUMARIACEAE

Adlumia Raf. Climbing Fumitory.

fungosa (Ait.) Greene. Mt. Toby, etc.

Dicentra Bernh.

Cucullaria (L.) Bernh. Dutchman's Breeches. Westfield, C. S. Plumb; North Amherst, Northampton, South Hadley.

canadensis (Goldie) Walp. Squirrel Corn. Conway, G. L. Goodale; Leverett, E. H. Sharpe.

Corydalis (Dill.) Medic.

sempervirens (L.) Pers. Pale Corydalis.

Fumaria [Tourn.] L. Fumitory.

OFFICINALIS L. Common Fumitory.

CRUCIFERAE

Berteroa DC.

INCANA (L.) DC. Springfield, Mrs. A. J. Smith and Dr. W. H. Chapin; Amherst, R. E. Torrey. Introduced in seed and spreading rapidly.

Alyssum [Tourn.] L.

alyssoides L. Amherst, etc.

Lepidium [Tourn.] L. Pepperwort. Peppergrass.

virginicum L. Wild Peppergrass.

apetalum Willd. Springfield, Miss M. L. Owen.

CAMPESTRE (L.) R. Br. Amherst.

Capsella Medic. Shepherd's Purse.

BURSA-PASTORIS (L.) Medic.

Camelina Crantz. False Flax.

SATIVA (L.) Crantz.

microcarpa Andrz. Greenfield, E. F. Williams. *Rhodora*, Vol. XII, p. 169.

Raphanus [Tourn.] L. Radish.

RAPHANISTRUM L. Wild Radish. Jointed Charlock.

Brassica [Tourn.] L. Mustard. Turnip.

ALBA (L.) Boiss. White Mustard.

junceae (L.) Cosson. Herb. Spfld Sci. Museum.

NIGRA (L.) Koch. Black Mustard.

campestris L. Rutabaga. More or less common in waste places.

Conringia (Heist.) Link. Hare's-ear Mustard.

orientalis (L.) Dumort. Belchertown, R. E. Torrey.

Sisymbrium [Tourn.] L. Hedge Mustard.

OFFICINALE (L.) Scop.

officinale (L.) Scop. var. *leiocarpum* DC. Herb. Spfld Sci. Mus.

Erysimum [Tourn.] L. Treacle Mustard.

cheiranthoides L. Worm-seed Mustard. Mt. Toby, H. G. Jesup; Sunderland.

Radicula (Dill.) Hill. Water Cress.

NASTURTIUM-AQUATICUM (L.) Britten & Rendle. True Water Cress. More or less common in brooks.

SYLVESTRIS (L.) Druce. Yellow Cress.

palustris (L.) Muench. Marsh Cress.

palustris (L.) Muench. var. *hispida* (Desv.) Robinson. Leverett pond, R. E. Torrey.

ARMORACIA (L.) Robinson. Horse-radish. Persistent and spreading around old dwellings.

Barbarea R. Br. Winter Cress.

VULGARIS R. Br. Common Winter Cress. Yellow Rocket.

stricta Andr. Longmeadow; Herb. Spfld Sci. Museum.

Dentaria [Tourn.] L. Toothwort. Pepper-root.

diphylla Michx.

maxima Nutt. Springfield, Miss G. L. Pettis.

laciniata Muhl. Deerfield, E. Hitchcock; Springfield, Miss G. L. Pettis; Amherst and Sunderland.

Cardamine [Tourn.] L. Bitter Cress.

bulbosa (Schreb.) BSP. Spring Cress.

pratensis L. Cuckoo Flower. Amherst, A. V. Osmun; Conway.

parviflora L.

pennsylvanica Muhl.

Arabis L. Rock Cress.

lyrata L. Mt. Tom, S. Stebbins.

Drummondii Gray.

hirsuta (L.) Scop.

laevigata (Muhl.) Poir.

canadensis L. Sickie-pod.

Isates

tinctoria L. Dyer's Wood. Amherst, Mass. Agr. College grounds. See *Cyclopedia of Am. Hort.*, Bailey, p. 836.

SARRACENIACEAE

- Sarracenia** [Tourn.] L.
purpurea L. Pitcher-plant.

DROSERACEAE

- Drosera** L. Sundew.
rotundifolia L. Round-leaved Sundew.
longifolia L.

PODOSTEMACEAE

- Podostemum** Michx. River Weed.
ceratophyllum Michx. In Conn. river, E. Hitchcock; South
 Hadley, Miss L. W. Shattuck.

CRASSULACEAE

- Penthorum** [Gronov.] L. Ditch Stonecrop.
sedoides L.
Sedum [Tourn.] L. Stonecrop. Orpine.
 ACRE L. Mossy Stonecrop. Occasional.
ternatum Michx. Sunderland.
reflexum L. Roadside, Leverett, H. G. Jesup.
 PURPUREUM Tausch. Garden Orpine. Live-for-ever. Roadsides.
Sempervivum L. Houseleek.
tectorum L.

SAXIFRAGACEAE

- Saxifraga** [Tourn.] L. Saxifrage.
pennsylvanica L. Swamp Saxifrage.
virginiensis Michx. Early Saxifrage.
Tiarella L. False Miterwort.
cordifolia L.
Mitella [Tourn.] L. Miterwort. Bishop's Cap.
diphylla L.
nuda L. East Amherst, H. G. Jesup; Plumtrees Swamp, C. S.
 Putnam.
Chrysosplenium [Tourn.] L. Golden Saxifrage.
americanum Schwein.
Parnassia [Tourn.] L. Grass of Parnassus.
caroliniana Michx.

Ribes L. Currant. Gooseberry.

Cynosbati L. Prickly Gooseberry. Dogberry. Conway, Mt. Tom, South Hadley.

rotundifolium Michx. West River Mt., E. Hitchcock.

oxyacanthoides L. Smooth Gooseberry.

floridum L'Her. Wild Black Currant.

prostratum L'Her. Skunk Currant. Belchertown, H. G. Jesup.

VULGARE Lam. Red Currant. Escaped from gardens.

aureum Pursh. Missouri or Buffalo Currant. Escaped from cultivation.

HAMAMELIDACEAE

Hamamelis L. Witch Hazel.

virginiana L.

PLATANACEAE

Platanus [Tourn.] L. Sycamore. Buttonwood.

occidentalis L. River valleys. A noteworthy specimen of this tree, 20 feet in circumference, stands on Sunderland street. This is said to be the largest sycamore tree in Massachusetts.

ROSACEAE

Spiraea [Tourn.] L.

latifolia Borkhr. Meadow-sweet.

tomentosa L. Hardhack. Steeple Bush.

Sorbaria A. Br.

sorbifolia (L.) A. Br. Amherst, N. Hadley road, W. D. Barlow.

Pyrus [Tourn.] L.

MALUS L. Apple. Frequently spontaneous.

arbutifolia (L.) L. f. Chokeberry.

arbutifolia (L.) L. f. var. **atropurpurea** (Britton) Robinson.

melanocarpa (Michx.) Willd. Northampton.

americana (Marsh.) DC. American Mountain Ash.

AUCUPARIA (L.) Ehrh. European Mountain Ash. Rowan Tree. Amherst, etc., Escaped.

Amelanchier Medic. Shad Bush.

sanguinea (Pursh.) DC. Millers Falls, Montague; K. M. Wiegand in *Rhodora*, Vol. XIV, p. 138.

stolonifera Wiegand. Millers Falls, Montague; *Rhodora*, Vol. XIV, p. 144.

- A. canadensis** (L.) Medic. *Rhodora*, Vol. XIV, p. 159.
laevis Wiegand. Millers Falls, Montague. *Rhodora*, Vol. XIV, p. 154.
oblongifolia (T. & G.) Roem. The extensive revision of this genus makes it doubtful if this species is in our range.
- Crataegus** L. Hawthorne. This genus has been extensively revised by Prof. C. S. Sargent in the last few years, and our region has not been thoroughly explored. Doubtless many other species exist here. Prof. Sargent has already enumerated some 60 species found in this state. The specific distinctions are so fine that none but a specialist can identify them.
- CRUS-GALLI** L.
punctata Jacq.
Gravesii Sarg. Amherst; *Rhodora*, Vol. V, p. 159.
coccinea L.
Stonei Sarg. Smith Hill, Pelham, etc.; *Rhodora*, Vol. V, p. 62.
tomentosa L.
rotundifolia Muench.
macrocarpa Ashe. Springfield, L. Andrews.
polita Sarg. Springfield, L. Andrews.
macracantha Lodd.
- Fragaria** [Tourn.] L. Strawberry.
virginiana Duchesne.
vesca L. var. **americana** Porter. Mt. Holyoke, Mt. Toby, etc.
- Waldsteinia** Willd.
fragarioides (Michx.) Trattinick. Barren Strawberry. Apparently rare. See E. F. Williams in *Rhodora*, Vol. XII, p. 170.
- Potentilla** L. Cinquefoil. Five-finger.
arguta Pursh.
monspeliensis L. var. **novegica** (L.) Rydb.
argentea L. Silvery Cinquefoil.
- RECTA** L. Belchertown, R. E. Torrey; South Amherst, S. C. Brooks; Springfield, Dr. W. H. Chapin.
palustris (L.) Scop. Marsh Cinquefoil. Springfield, S. Stebbins.
fruticosa L. Shrubby Cinquefoil. More common in the Berkshires, where it becomes a noxious weed.
tridentata Ait. Three-toothed Cinquefoil. Hoosac Mountain, E. Hitchcock. Probably within our range.
pumila Poir. Springfield, L. Andrews.
canadensis L.
canadensis L. var. **simplex** (Michx.) T. & G. Springfield, L. Andrews.

Geum L. Avens.

canadense Jacq.

flavum (Porter) Bicknell. Herb. Spfld Sci. Museum.

virginianum L.

strictum Ait.

rivale L. Water or Purple Avens.

Rubus [Tourn.] L. Bramble.

idaeus L. var. *aculeatissimus* [C. A. Mey.] Regel & Tiling. Wild Red Raspberry. This common raspberry should be called *Rubus idaeus* L. var. *canadensis* Rich. (See W. H. Blanchard in *Rhodora*, Vol. XI, p. 236.)

occidentalis L. Black Raspberry. Thimbleberry.

odoratus L. Purple Flowering Raspberry.

triflorus Richards. Dwarf Raspberry. This plant should be called *Rubus pubescens* Raf. (See W. H. Blanchard in *Rhodora*, Vol. XI, p. 236.)

alleghehiensis Porter. Springfield, L. Andrews.

frondosus Bigel. Springfield, A. Andrews.

Randii (Bailey) Rydb. Springfield, L. Andrews.

canadensis L.

Millspaughii Britton. Common in highlands of New England. Ezra Brainerd in *Rhodora*, Vol. II, p. 26. Collected at Hawley, elevation about 1800 ft.

Andrewsianus Blanchard. Southwick. In *Rhodora*, Vol. VIII, p. 17.

nigricans Rydb. Herb. Spfld Sci. Museum.

hispidus L.

villosus Ait. Dewberry.

villosus Ait. var. *humifusus* T. & G. Herb. Spfld Sci. Museum.

plicatifolius Blanchard. Palmer and Munson. In *Rhodora*, Vol. VIII, p. 216.

Rossbergianus Blanchard. Palmer. Blanchard in *Rhodora*, Vol. IX, p. 7.

Dalibarda Kalm.

repens L. Greenfield, E. Tuckerman; Sunderland, Lake Wyola, R. E. Torrey; Warwick, Dr. N. A. Cobb.

Agrimonia [Tourn.] L. Agrimony.

gryposepala Wallr.

striata Michx. Herb. Spfld Sci. Museum.

mollis (T. & G.) Britton. Herb. Spfld Sci. Museum.

Sanguisorba [Rupp.] L. Burnet.

canadensis L. Canadian Burnet. Hadley, Sunderland, Amherst, Deerfield, etc.

Rosa [Tourn.] L. Rose.

blanda Ait. Mt. Holyoke.

CINNAMOMEA L. Cinnamon Rose. Persistent about dwellings.

RUBIGINOSA L. Sweetbrier. Eglantine.

GALLICA L. Garden Rose. Roadsides and fields.

nitida Willd. Springfield, L. Andrews.

carolina L.

virginiana Mill.

humilis Marsh. Plumtrees Swamp, A. V. Osmun; Springfield,
L. Andrews.

multiflora Thunb. Escaping locally.

Prunus [Tourn.] L. Plum, Cherry, etc.

serotina Ehrh. Wild Black or Rum Cherry.

virginiana L. Choke Cherry.

pennsylvanica L. f. Wild Red, Bird, Fire or Pin Cherry.

institia C. Bullace Plum. Herb. Spfld Sci. Museum.

cuneata Raf. Springfield, L. Andrews.

pumila L. Sand Cherry.

americana Marsh. Wild Plum.

LEGUMINOSAE

Gleditsia L. Honey Locust.

TRIACANTHOS L. Honey Locust. Escaped from cultivation.

Cassia [Tourn.] L. Senna.

marilandica L. Wild Senna.

nictitans L. Wild Sensitive Plant.

Baptisia Vent. False Indigo.

tinctoria (L.) R. Br. Wild Indigo.

Crotaria (Dill.) L. Rattle-box.

sagittalis L.

Lupinus [Tourn.] L. Lupine.

perennis L.

Trifolium [Tourn.] L. Clover. Trefoil.

ARVENSE L. Rabbit-foot. Stone Clover.

incarnatum L. Crimson or Italian Clover. Amherst. Occasionally persists.

PRATENSE L. Red Clover.

REPENS L. White Clover.

HYBRIDUM L. Alsike Clover. Common under cultivation and in fields.

AGRARIUM L. Yellow or Hop Clover.

PROCUMBENS L. Low Hop Clover.

Melilotus [Tourn.] Hill. Melilot. Sweet Clover.

officinalis (L.) Lam. Yellow Melilotus.

ALBA Desr. White Melilot.

Medicago [Tourn.] L. Medick.

SATIVA L. Lucerne. Alfalfa.

LUPULINA L. Black Medick. Nonesuch. Both species of **Medicago** were formerly rare, but now more common.

Lotus [Tourn.] L. Bird's Foot Trefoil.

corniculatus L. North Amherst, A. V. Osmun.

Amorpha L.

FRUTICOSA L. False Indigo. Escaped from cultivation and established near Mass. Agr. College grounds, Amherst; Springfield, L. Andrews.

Tephrosia Pers. Hoary Pea.

virginiana (L.) Pers. Goat's Rue. Catgut.

Robinia L. Locust.

PSEUDO-ACACIA L. Common Locust or False Acacia. Wellesley.

VISCOSA Vent. Clammy Locust. Persistent and spreading.

Coronilla L.

VARIA L. Amherst, etc.

Desmodium Desv. Tick Trefoil.

nudiflorum (L.) DC.

grandiflorum (Walt.) DC.

rotundifolium (Michx.) DC.

canescens (L.) DC.

bracteosum (Michx.) DC.

Dillenii Darlingt.

paniculatum (L.) DC.

canadense (L.) DC.

rigidum (Ell.) DC.

marilandicum (L.) DC.

Lespedeza Michx. Bush Clover.

procumbens Michx.

violacea (L.) Pers.

hirta (L.) Hornem.

capitata Michx.

capitata Michx. var. *velutina* (Bicknell) Fernald. Springfield, L. Andrews.

Vicia [Tourn.] L. Vetch. Tare.

SATIVA L. Spring Vetch.

ANGUSTIFOLIA (L.) Reichard. var. *segetalis* (Thuillier) Koch. Amherst; Springfield, L. Andrews.

Cracca L. Deerfield ; Springfield, L. Andrews ; Sunderland, H. G. Jesup ; Monson, E. L. Morris ; Lock's pond, Shutesbury, R. E. Torrey. More or less common now ; previously rare. Probably native.

Lathyrus [Tourn.] L. Vetchling. Everlasting Pea.

LATIFOLIUS L. Everlasting or Perennial Pea. Amherst, etc.

PRATENSIS L. West Springfield, A. P. Foster ; Springfield, Mrs. M. L. Owen.

Apios (Boerhaave) Ludwig. Groundnut. Wild Bean.

tuberosa Muench.

Amphicarpa Ell. Hog Peanut.

monoica (L.) Ell.

Pitcheri T. & G. Sunderland, R. E. Torrey.

LINACEAE

Linum [Tourn.] L. Flax.

usitatissimum L. Dumps and railroad embankments.

virginianum L.

OXALIDACEAE

Oxalis L. Wood Sorrel.

Acetosella L. Common Wood Sorrel. Amherst, Conway, etc.

violacea L. Violet Wood Sorrel. Notch, Mt. Holyoke, etc.

stricta L.

corniculata L. Lady's Sorrel.

repens Thunb. About greenhouses, etc.

GERANIACEAE

Geranium [Tourn.] L. Cranesbill.

maculatum L. Wild Cranesbill.

Robertianum L. Herb Robert.

carolinianum L.

pusillum Burm. f. In grass lands. Springfield, Mrs. M. L. Owen.

molle L. In grass lands. Springfield, Mrs. M. L. Owen.

RUTACEAE

Zanthoxylum L. Prickly Ash.

americanum Mill. Northern Prickly Ash. Toothache-tree. Sunderland, E. Hitchcock ; Norwottuck, W. S. Clark.

Ptelea L. Hop Tree.

TRIFOLIATA L. Springfield, L. Andrews ; Easthampton, Dr. N. A. Cobb ; also seeding in freely where cultivated.

SIMARUBACEAE

Ailanthus Desf. Tree of Heaven.

GLANDULOSA Desf. Established here and there, frequently under the most adverse conditions.

POLYGALACEAE

Polygala [Tourn.] L. Milkwort.

paucifolia Willd. Fringed Polygala. Flowering Wintergreen.

polygama Walt.

sanguinea L.

verticillata L.

verticillata L. var. *ambigua* (Nutt.) Wood. Springfield, Mrs. A. J. Smith.

EUPHORBIACEAE

Acalypha L. Three-seeded Mercury.

virginica L.

Euphorbia L. Spurge.

Preslii Guss.

hirsuta (Torr.) Wiegand. Springfield, L. Andrews.

maculata L. Milk Purslane.

Ipecacuanhae L. Enfield; A. S. Pease in *Rhodora*, Vol. VI, p. 87.

CYPARISSIAS L. Cypress Spurge. Fruiting forms found in Greenfield; Walter Dean in *Rhodora*, Vol. XIV, page 194.

CALLITRICHACEAE

Callitriche L. Water Starwort.

palustris L.

heterophylla Pursh. Near Mt. Warner; H. L. Clark in *Rhodora*, Vol. I, p. 164; Springfield, L. Andrews.

ANACARDIACEAE

Rhus L. Sumac.

typhina L. Staghorn Sumac.

glabra L. Smooth Sumac.

copallina L. Dwarf Sumac.

Vernix L. Poison Sumac or Dogwood.

Toxicodendron L. Poison Ivy. Poison Oak.

AQUIFOLIACEAE

Ilex L.

verticillata (L.) Gray. Black Alder. Winterberry.

laevigata (Pursh.) Gray. Smooth Winterberry. Belchertown ponds, H. G. Jesup; Southwick; C. H. Bissell in *Rhodora*, Vol. XIII, p. 54.

Nemopanthus Raf. Mountain Holly.

mucronata (L.) Trel.

CELASTRACEAE

Celastrus L. Staff Tree. Shrubby Bitter-sweet.

scandens L. Waxwork. Climbing Bitter-sweet.

STAPHYLEACEAE

Staphylea L. Bladder Nut.

trifolia L. American Bladder Nut. Sunderland, brooks of Conn. river, C. S. Plumb; Mt. Toby, A. V. Osmun; Plumtrees, Sunderland, Mt. Holyoke, Deerfield, North Hadley.

ACERACEAE

Acer [Tourn.] L. Maple.

pennsylvanicum L. Striped Maple. Moosewood.

spicatum Lam. Mountain Maple.

saccharum Marsh. Sugar or Rock Maple.

saccharum Marsh. var. *nigrum* (Michx. f.) Britton. Black Sugar Maple. Many of our sugar maples in the Connecticut valley, if not identical with this variety, closely approach it in form, texture, color and pubescence of leaf and general habit.

saccharinum L. White or Silver Maple.

rubrum L. Red or Swamp Maple.

rubrum L. var. *tridens* Wood. Springfield, L. Andrews.

Negundo L. Box Elder. Western part of our range.

SAPINDACEAE

Aesculus L. Horse-chestnut.

HIPPOCASTANUM L. Common Horse-chestnut. Occasionally propagates by seeds.

BALSAMINACEAE

- Impatiens* (Rivinius) L. Balsam. Jewelweed.
pallida Nutt. Pale Touch-me-not.
biflora Walt. Spotted Touch-me-not.

RHAMNACEAE

- Rhamnus* [Tourn.] L. Buckthorn.
alnifolia L'Her. Deerfield, E. Hitchcock. Has not been found
 by other collectors.
 CATHARTICA L. Common Buckthorn.
Ceanothus L. Red-root.
americanus L. New Jersey Tea.
ovatus Desf. Springfield, W. E. Johnson.

VITACEAE

- Psedera* Neck. Virginia Creeper. Woodbine.
quinquefolia (L.) Greene.
quinquefolia (L.) Greene. var. *hirsuta* (Donn) Rehder. Amherst;
 A. Rehder in *Rhodora*, Vol. X, p. 26.
Ampelopsis
heterophylla Sieb. & Zucc. Escaping; Mass. Agr. College
 grounds. (See Bailey's *Cyc. of Am. Hort.*, Vol. I,
 p. 59.
Vitis [Tourn.] L. Grape.
labrusca L. Northern Fox Grape.
aestivalis Michx. Summer or Pigeon Grape.
cordifolia Michx. Frost or Chicken Grape.
ulpina L. River-bank or Frost Grape.

TILIACEAE

- Tilia* [Tourn.] L. Linden.
americana L. Basswood.

MALVACEAE

- Abutilon* [Tourn.] Mill. Indian Mallow.
Theophrasti Medic. Velvet Leaf.
Malva [Tourn.] L. Mallow.
 ROTUNDIFOLIA L. Common Mallow, Cheeses.
 SYLVESTRIS L. High Mallow.
 MOSCHATA L. Musk Mallow.
Hibiscus L. Rose Mallow.
 TRIONUM L. Flower-of-an-hour. Springfield, L. Andrews.

HYPERICACEAE

- Hypericum* [Tourn.] L. St. John's-wort.
Ascyron L. Great St. John's-wort.
 PERFORATUM L. Common St. John's-wort.
punctatum Lam.
ellipticum Hook.
mutilum L.
majus (Gray) Britton. Conway, H. G. Jesup; Springfield.
canadense L.
gentianoides (L.) BSP. Orange Grass. Pineweed.
virginicum L. Marsh St. John's-wort.

CISTACEAE

- Helianthemum* [Tourn.] Mill. Rockrose.
canadense (L.?) Michx. Frostweed.
Lechea (Kalm) L. Pinweed.
villosa Ell.
minor L.
intermedia Leggett. Springfield, L. Andrews.
maritima Leggett. var. *interior* Robinson. Training School grounds, Springfield, L. Andrews.
tenuifolia Michx. Southwick, S. Stebbins; Amherst, E. F. Bishop.

VIOLACEAE

This genus, *Viola*, has recently been extensively revised and many new species have been added. The tendency to hybridization renders the determination of species difficult.

- Viola* [Tourn.] L. Violet. Heart's-ease.
pedata L. Bird-foot Violet.
pedata L. var. *lineariloba* DC. Springfield, L. Andrews.
cucullata Ait.
latiuscula Greene.
papilionacea Pursh.
palmata L.
triloba Schwein. Springfield, L. Andrews.
sororia Willd.
septentrionalis Greene.
fimbriatula Sm.
sagittata Ait.
Selkirkii Pursh.
lanceolata L. Lance-leaved Violet.
primulifolia L. Primrose-leaved Violet.

- pallens* (Banks) Brainerd.
blanda Willd. Notch, Mt. Holyoke, and Mt. Toby.
renifolia Gray.
rotundifolia Michx. Round-leaved or Early Yellow Violet.
pubescens Ait. Downy Yellow Violet.
scabriuscula Schwein.
canadensis L. Canada Violet.
striata Ait. Amherst, E. Hitchcock; South Hadley, Mrs. C. S. Phelps.
conspersa Reichenb.
rostrata Pursh. Long-spurred Violet. Whately Glen and Rattlesnake Gutter.
 TRICOLOR L. Pansy. Heart's-ease.
 ARVENSIS Murr. Wild Pansy.

THYMELAEACEAE

- Dirca* L. Leatherwood. Moosewood.
palustris L. Wicopy.

ELAEAGNACEAE

- Elaeagnus* [Tourn.] L.
umbellata Thunbg. Escaping freely on Mass. Agr. College grounds. See Bailey's *Cyc. of Am. Hort.*, Vol. II, p. 524.

LYTHRACEAE

- Ammannia* [Houston] L.
 KOEHNEI Britton. Lombard Reservoir, Springfield, Dr. W. H. Chapin.
Decodon J. F. Gmel. Swamp Loosestrife.
virticillatus (L.) Ell. Water Willow. Belchertown, Sunderland, Springfield, etc.
Lythrum L. Loosestrife.
alatum Pursh. Sunderland, R. E. Torrey; Springfield, L. Andrews.
 SALICARIA L. Spiked Loosestrife. Wet places.
 VIRGATUM L.

MELASTOMACEAE

- Rhexia* L. Deer Grass. Meadow Beauty.
virginica L. Leverett, Shutesbury, H. G. Jesup; Warwick, C. S. Plumb; Sunderland, A. V. Osmun. Rather rare, but abundant locally.

ONAGRACEAE

- Ludvigia* L. False Loosestrife.
alternifolia L. Seedbox. Hadley, E. Tuckerman ; Springfield, Mrs. M. L. Owen.
polycarpa Short and Peter. East Longmeadow, Dr. W. H. Chapin.
palustris (L.) Ell. Water Purslane.
Epilobium L. Willow-herb.
angustifolium L. Great Willow-herb. Fire-weed.
molle Torr. Sunderland, Amherst.
densum Raf.
coloratum Muhl.
adenocaulon Haussk.
Oenothera L. Evening Primrose.
cruciata Nutt. Sunderland, Northampton, etc., S. C. Brooks.
muricata L. Amherst, S. C. Brooks.
biennis L. Common Evening Primrose.
grandiflora Ait. Pansy Park, Belchertown, L. W. Goodell ; Springfield. Escaped from cultivation.
pumila L.
fruticosa L. Sundrops. South Hadley, Mrs. C. S. Phelps.
Circaea [Tourn.] L. Enchanter's Nightshade.
lutetiana L.
alpina L.

HALORAGIDACEAE

- Myriophyllum* [Vaill.] L. Water Milfoil.
verticillatum L.
humile (Raf.) Morong. Hadley, H. G. Jesup ; Springfield, L. Andrews.
humile (Raf.) Morong. forma *capillaceum* (Torr.) Fernald. Herb. Spfld Sci. Museum.
tenellum Bigel.
Proserpinaca L. Mermaid-weed.
palustris L.

ARALIACEAE

- Aralia* [Tourn.] L.
racemosa L. Spikenard.
hispida Vent. Bristly Sarsaparilla. Wild Elder.
nudicaulis L. Wild Sarsaparilla.

Panax L. Ginseng.

quinquefolium L. Ginseng. Deerfield, Conway, Mt. Toby, Amherst, etc. The ginseng of commerce, collected and cultivated for its medicinal roots.

trifolium L. Dwarf Ginseng. Ground-nut.

UMBELLIFERAE

Sanicula [Tourn.] L. Sanicle. Black Snakeroot.

marilandica L.

gregaria Bicknell. Springfield, L. Andrews.

canadensis L.

Hydrocotyle [Tourn.] L. Water Pennywort.

americana L.

Osmorhiza Raf. Sweet Cicely.

Claytoni (Michx.) Clarke.

longistylis (Torr.) DC.

Conium L. Poison Hemlock.

MACULATUM L. A poisonous plant.

Cicuta L. Water Hemlock.

maculata L. Spotted Cowbane. Musquash Root. Beaver Poison.

bulbifera L.

Carum L. Caraway.

CARVI L. Caraway. Around old dwellings.

Berula Hoffm.

erecta (Huds.) Coville.

Sium [Tourn.] L. Water Parsnip.

cicutaefolium Shrank.

Cryptotaenia DC. Honewort.

canadensis (L.) DC.

Zizia Koch.

aurea (L.) Koch. Golden Alexanders.

Taenidia Drude.

integerrima (L.) Drude. Montague, J. L. Bennett; Dr. N. A. Cobb's List.

Thaspium Nutt. Meadow Parsnip.

aureum Nutt.

Pastinaca L. Parsnip.

SATIVA L.

Anethum [Tourn.] L. Dill.

graveolens L. Feeding Hills, Springfield. Herb. Spfld Sci. Museum.

Heracleum L. Cow Parsnip.

lanatum Michx.

Angelica L. Angelica.

atropurpurea L.

Daucus [Tourn.] L. Carrot.

CAROTA L. One of our worst biennial weeds.

CORNACEAE

Cornus [Tourn.] L. Cornel. Dogwood.

canadensis L. Dwarf Cornel. Bunchberry.

florida L. Flowering Dogwood.

circinata L'Her. Round-leaved Cornel or Dogwood. A beautiful species found largely in rich humus of mountainous regions.

Amomum Mill. Silky Cornel. Kinnikinnik.

stolonifera Michx. Red-ozier Dogwood.

paniculata L'Her.

alternifolia L. f.

Nyssa L. Tupelo. Pepperidge. Sour Gum.

sylvatica Marsh. Black Gum. Generally distributed, but not well known.

ERICACEAE

Clethra [Gronov.] L. White Alder.

alnifolia L. Sweet Pepperbush. Belchertown swamp, R. E. Torrey. This is the most western station known to us in Mass. Common near the coast. A valuable honey plant.

Chimaphila Pursh. Pipsissewa.

umbellata (L.) Nutt. Prince's Pine. Pipsissewa.

maculata (L.) Pursh. Spotted Wintergreen. Less common than the preceding.

Moneses Salisb. One-flowered Pyrola.

uniflora (L.) Gray. Williamsburg, H. G. Jesup; Mt. Toby, H. L. Clark in *Rhodora*, Vol. I, p. 165; North Leverett, R. E. Torrey; Amherst.

Pyrola [Tourn.] L. Wintergreen. Shin Leaf.

secunda L.

chlorantha Sw.

elliptica Nutt. Shin Leaf.

americana Sweet.

asarifolia Michx.

Monotropa L. Pinesap.

uniflora L. Indian Pipe. Corpse Plant.

Hypopitys L. Pinesap. Fake Beech Drops.

Pterospora Nutt. Pine Drops.

andromedea Nutt. Easthampton, E. Hitchcock. Not observed by other collectors.

Ledum L. Labrador Tea.

groenlandicum Oeder. Amherst, Hitchcock Catal.; Greenfield, Plumtrees Road; Springfield, Miss F. A. Stebbins.

Rhododendron L.

viscosum (L.) Torr. Clammy Azalea. White Swamp Honeysuckle. Belchertown, etc. Rather rare and local. More common near the coast.

viscosum (L.) Torr. var. **glaucum** (Michx.) Gray. Springfield, L. Andrews.

nudiflorum (L.) Torr. Purple Azalea. Pinxter Flower.

canescens (Michx.) G. Don. This species seems to be more common than the preceding in the Conn. Valley. According to our observations a mark of distinction between the two is the simultaneous appearance of flowers and leaves in *R. canescens*.

canadense (L.) BSP. Rhodora.

Kalmia L. Laurel.

latifolia L. Mountain Laurel. Spoon-wood.

latifolia L. forma **polypetala** Nicholson. [See Alfred Rehder in *Rhodora*, Vol. XII, p. 1.] This interesting form of *Kalmia* was discovered by Miss M. Bryant at South Deerfield, and described by Asa Gray in the *Am. Nat.*, Vol. IV, p. 373; 1871. In this form the corolla is completely divided into linear or liliiform divisions. One of these forms is in the Arnold Arboretum, and Prof. C. S. Sargent has figured and described it in *Garden and Forest*, Vol. II, pp. 452-453. The writer discovered a similar form in Leverett near a roadside, in 1907. (See *Rhodora*, Vol. II, p. 199.) And in June, 1910, a large clump of the same was discovered at Mt. Toby.

angustifolia L. Sheep Laurel. Lambkill. Wicky.

polifolia Wang. Pale Laurel. Springfield, Dr. W. H. Chapin. Rare. Amherst.

Andromeda L.

glaucophylla Link. Bog Rosemary. Belchertown south pond, Hampton pond; Springfield, S. Stebbins and Dr. W. H. Chapin; Florence. See *Rhodora*, Vol. V, pp. 67-71.

Lyonia Nutt.*ligustrina* (L.) DC. Male Berry.**Chamaedaphne** Muench. Leather Leaf. Cassandra.*calyculata* (L.) Muench.**Epigaea** L. Ground Laurel. Trailing Arbutus.*repens* L. Mayflower.**Gaultheria** [Kalm] L. Aromatic Wintergreen.*procumbens* L. Teaberry. Checkerberry.**Arctostaphylos** Adans. Bearberry.*Uva-ursi* (L.) Spreng. Not common.**Calluna** Salisb. Heather. Ling.*vulgaris* (L.) Hull. Northfield, C. C. Frost. Probably an escape.**Chiogenes** Salisb. Creeping Snowberry.*hispidula* (L.) T. & G. Moxie Plum. Capillaire. Swamps, Springfield, Amherst, etc. Local.**Gaylussacia** HBK. Huckleberry.*frondosa* (L.) T. & G. Blue Tangle. Dangleberry.*baccata* (Wang.) C. Koch. Black Huckleberry.**Vaccinium** L. Blueberry. Cranberry.*stamineum* L. Deerberry. Squaw Huckleberry.*pennsylvanicum* Lam. Low Sweet Blueberry. Early Sweet Blueberry.*pennsylvanicum* Lam. forma *leucocarpum* Deane. The common blueberry runs into many forms, varying in color and translucency of the fruit. Forma *leucocarpum* with white fruit is most pronounced.*pennsylvanicum* Lam. var. *nigrum* Wood. Low Black Blueberry.*vacillans* Kalm. Late Low Blueberry.*corymbosum* L. High Blueberry.*atrococcum* (Gray) Heller. Black High Blueberry.*Oxycoccus* L. Small Cranberry.*macrocarpon* Ait. Large or American Cranberry.

PRIMULACEAE

Lysimachia [Tourn.] L. Loosestrife.*punctata* L. Roadsides, South Amherst, H. G. Jesup. Not found at this station now. See *Rhodora*, Vol. IV, p. 62.*quadrifolia* L.*terrestris* (L.) BSP.

NUMMULARIA L. Moneywort. Common.

thyrsiflora L. Tufted Loosestrife.**Steironema** Raf.*ciliatum* (L.) Raf.

***Trientalis* L.** Chickweed. Wintergreen.

***americana* (Pers.) Pursh.** Star Flower. This plant should be called *Trientalis borealis* Raf. See W. H. Blanchard in *Rhodora*, Vol. XI, p. 236.

OLEACEAE

***Fraxinus* [Tourn.] L.** Ash.

***americana* L.** White Ash. Our most common ash; the others more or less rare.

***pennsylvanica* Marsh.** Red Ash.

***pennsylvanica* Marsh. var. *lanceolata* (Borkh.) Sarg.** Green Ash.

***nigra* Marsh.** Black Ash.

***Ligustrum* [Tourn.] L.** Privet.

VULGARE L. Privet or Prim. Much more common near the coast.

GENTIANACEAE

***Gentiana* [Tourn.] L.** Gentian.

***crinita* Froel.** Fringed Gentian.

***quinquefolia* L.** Mt. Toby, H. G. Jesup; Hoosac Mountain (probably within our range), E. Hitchcock; Blandford, Mrs. S. T. Seelye; Cobb's List.

***Andrewsii* Griseb.** Closed Gentian.

***linearis* Froel.** Hoosac Mts. (within our range), S. C. Brooks.

***Halenia* Borkh.** Spurred Gentian.

***deflexa* (Sm.) Grisebach.** Cummington, H. G. Jesup.

***Bartonia* Muhl.**

***virginica* (L.) BSP.**

***Menyanthes* [Tourn.] L.** Buckbean.

***trifoliata* L.**

***Nymphoides* [Tourn.] Hill.** Floating Heart.

***lacunosum* (Vent.) Fernald.** Ponds, South Hadley, Belchertown, etc., S. C. Brooks.

APOCYNACEAE

***Apocynum* [Tourn.] L.** Dogbane. Indian Hemp.

***androsaemifolium* L.** Spreading Dogbane.

***medium* Greene.** Springfield, L. Andrews.

***cannabinum* L.** Indian Hemp.

ASCLEPIADACEAE

- Asclepias** [Tourn.] L. Milkweed. Silkweed.
tuberosa L. Butterfly-weed. Pleurisy-root.
purpurascens L. Purple Milkweed.
incarnata L. Swamp Milkweed.
incarnata L. var. *pulchra* (Ehrh.) Pers. Springfield, L. Andrews.
cannabinum L. Indian Hemp.
syriaca L. Common Milkweed or Silkweed.
amplexicaulis Sm.
phytolaccoides Pursh. Poke Milkweed.
quadrifolia Jacq.
verticillata L.

CONVOLVULACEAE

- Ipomoea** L. Morning Glory.
purpurea (L.) Roth.
Convolvulus [Tourn.] L. Bindweed.
spithameus L.
 JAPONICUS Thunb. Escaped from cultivation.
sepium L. Hedge Bindweed.
Cuscuta [Tourn.] L. Dodder.
Epithymum Murr. Occasionally found parasitic on clover and alfalfa, causing "lodging" of the host plant. Introduced in clover seed, but not persisting.
arvensis Beyrich. Occasionally affecting alfalfa and clover.
Gronovii Willd. Common on alders, etc., but observed growing on raspberry bushes.

POLEMONIACEAE

- Phlox** L.
paniculata L. Persistent and occasionally escaped.
stolonifera Sims. Amherst, E. N. Brown.

HYDROPHYLLACEAE

- Hydrophyllum** [Tourn.] L. Waterleaf.
virginianum L. Rare.

BORAGINACEAE

- Cynoglossum** [Tourn.] L. Hound's Tongue.
 OFFICINALE L. Common Hound's Tongue.
boreale Fernald. Mt. Toby, A. V. Osmun.
- Lappula** [Rivinius] Muench. Stickseed.
virginiana (L.) Greene. Beggar's Lice. Springfield, L. Andrews;
 Amherst.
- Symphytum** [Tourn.] L. Comfrey.
 OFFICINALE L. Common Comfrey. Waste places; Belchertown,
 Leverett, etc.
- Lycopsis** L. Bugloss.
arvensis L. Small Bugloss. Amherst and Hatfield, E. Hitchcock.
- Myosotis** (Rupp.) L. Scorpion-grass. Forget-me-not.
 SCORPIOIDES L. True Forget-me-not. Amherst, etc.
arvensis (L.) Hill. Hitchcock Catal.
virginica (L.) BSP. Amherst, Mt. Holyoke, etc., H. G. Jesup.
- Lithospermum** [Tourn.] L. Gromwell. Puccoon.
 ARVENSE L. Corn Gromwell. Longmeadow; Springfield, L. Andrews.
- Onosmodium** Michx. False Gromwell.
virginianum (L.) DC. Monson, E. Hitchcock; Long Hill, Springfield, Mrs. Burnham.
- Echium** [Tourn.] L. Viper's Bugloss.
 VULGARE L. Blue-weed. Blue Devil. Roadsides near Greenfield, F. G. Tuckerman; Springfield, Dr. George Demock; Conway, H. G. Jesup.

VERBENACEAE

- Verbena** [Tourn.] L. Vervain.
urticaefolia L. White Vervain.
angustifolia Michx. South Hadley, E. Hitchcock; Amherst, W. S. Clark; Mt. Tom, S. Stebbins; Mt. Holyoke, H. G. Jesup.
- hastata* L. Blue Vervain.

LABIATAE

- Teucrium** [Tourn.] L. Germander.
canadense L. American Germander. Wood Sage.
- Trichostema** L. Blue Curls.
dichotomum L. Bastard Pennyroyal.

- Scutellaria** L. Skullcap.
lateriflora L. Mad-dog Skullcap. A form with white flowers has been found at Sunderland by R. E. Torrey.
galericulata L.
- Marrubium** [Tourn.] L. Horehound.
 VULGARE L. Common Horehound.
- Agastache** Clayt. Giant Hyssop.
nepetoides (L.) Ktze. Deerfield, E. Hitchcock. Not since collected.
- Nepeta** L. Cat Mint.
 CATARIA L. Catnip.
 HEDERACEA (L.) Trevisan. Ground Ivy. Gill-over-the-Ground.
- Prunella** L. Self-heal.
vulgaris L. Heal-all. Carpenter-weed.
- Galeopsis** L. Hemp. Nettle.
 TETRAHIT L. Common Hemp. Nettle.
- Lamium** L. Dead Nettle.
 AMPLEXICAULE L. Henbit.
 PURPUREUM L.
- Leonurus** L. Motherwort.
 CARDIACA L. Common Motherwort.
- Stachys** [Tourn.] L. Hedge Nettle.
 TENUIFOLIA Willd. var. ASPERA (Michx.) Fernald.
- Monarda** L. Horse Mint.
 DIDYMA L. Oswego Tea. Bee Balm. Roadsides, Leverett, etc.
 FISTULOSA L. Wild Bergamot. Shelburne, F. G. Tuckerman; Mt. Toby, A. V. Osmun. Prof. Osmun observed a large colony of the species on Mt. Toby quite remote from any habitation, which had all the appearance of being indigenous. Prof. Tuckerman apparently considered it indigenous, although M. L. Fernald (*Rhodora*, Vol. III, p. 15) describes it as an escape in New England.
- Blephilia** Raf.
ciliata (L.) Raf. Hadley, H. G. Jesup.
hirsuta (Pursh) Benth. Wood Mint. Cummington, etc., E. Hitchcock.
- Hedeoma** Pers. Mock Pennyroyal.
pulegioides (L.) Pers. American Pennyroyal.
- Melissa** [Tourn.] L. Balm.
officinalis L. Common Balm. Escaped from gardens, Conway, H. G. Jesup.
- Satureja** [Tourn.] L. Savory. Calamint.
vulgaris (L.) Fritsch. Basil. Apparently native.

- Origanum** [Tourn.] L. Wild Marjoram.
 VULGARE L. Roadsides, Amherst, etc.
- Pycnanthemum** Michx. Mountain Mint. Basil.
flexuosum (Walt.) BSP.
virginianum (L.) Durand & Jackson.
incanum (L.) Michx. Mt. Holyoke, etc., H. G. Jesup.
muticum (Michx) Pers.
- Thymus** [Tourn.] L.
 SERPYLLUM L. Creeping Thyme. Amherst, etc., W. D. Barlow ; Springfield, Dr. W. H. Chapin. Spreading.
- Lycopus** [Tourn.] L. Water Horehound.
virginicus L. Bugle Weed.
uniflorus Michx. Bugle Weed. Springfield, L. Andrews.
americanus Muhl.
- Mentha** [Tourn.] L. Mint.
 SPICATA L. Spearmint.
piperita L. Peppermint.
arvensis L. var. *canadensis* (L.) Briquet.
arvensis L. var. *glabrata* (Benth.) Fernald. Sunderland, R. E. Torrey.
- Collinsonia** L. Horse Balm.
canadensis L. Rich-weed. Stone-root.

SOLANACEAE

- Solanum** [Tourn.] L. Nightshade.
 DULCAMARA L. Bitter-sweet.
nigrum L. Common Nightshade.
carolinense L. Horse Nettle. Training School grounds, Springfield.
- Physalis** L. Ground Cherry.
 PRUINOSA L. Strawberry Tomato. Persistent and escaping.
heterophylla Nees. Springfield, L. Andrews ; Amherst.
virginiana Mill. Springfield, Amherst, etc.
- Nicandra** Adans. Apple of Peru.
 PHYSALODES (L.) Pers.
- Lycium** L. Matrimony Vine.
halimifolium Mill. Sometimes escaped.
- Hyoscyamus** [Tourn.] L. Henbane.
 NIGER L. Black Henbane.
- Datura** L. Jamestown Weed or Jimson Weed. Thorn Apple.
 STRAMONIUM L. Stramonium.
 TATULA L. Purple Thorn Apple.

SCROPHULARIACEAE

- Verbascum** [Tourn.] L. Mullein.
 THAPSUS L. Common Mullein.
 BLATTARIA L. Moth Mullein. Roadsides, etc.
- Linaria** [Tourn.] Hill. Toadflax.
 VULGARIS Hill. Ramsted. Butter and Eggs.
canadensis (L.) Dumont.
- Scrophularia** [Tourn.] L. Figwort.
marilandica L.
leporella Bicknell. Amherst, S. F. Hamblin ; Springfield, L. Andrews.
- Pentstemon** (Mitchell) Ait.
hirsutus (L.) Willd. Springfield, Miss G. L. Pettis ; East Amherst, H. L. Clark in *Rhodora*, Vol. I, p. 164 ; Hadley, Cobb's List.
 LAEVIGATUS Ait. Springfield, Miss G. L. Pettis.
grandiflorus Nutt. Springfield, in waste land on the edge of the city, Dr. W. H. Chapin ; *Rhodora*, Vol. VII, p. 36.
 Springfield, Miss E. J. Steele and Joel Hendrick.
- Chelone** [Tourn.] L. Turtlehead. Snakehead.
glabra L. Balmony.
- Mimulus** L. Monkey Flower.
ringens L.
alatus Ait. Amherst, E. Hitchcock. Not observed in recent years.
- Ilysanthes** Raf. False Pimpernel.
dubia (L.) Barnhart.
- Gratiola** L. Hedge Hyssop.
virginiana L.
aurea Muhl.
- Veronica** [Tourn.] L. Speedwell.
virginica L. Culver's-root. Culver's Physic.
Anagallis-aquatica L. Water Speedwell.
americana Schwein. American Brooklime.
scutellata L. Marsh Speedwell.
officinalis L. Common Speedwell.
serpyllifolia L. Thyme-leaved Speedwell.
peregrina L. Neckweed. Purslane Speedwell.
 ARVENSIS L. Corn Speedwell.
- Gerardia** (Plumier) L. Gerardia.
pedicularia L.
flava L. Downy False Foxglove.
virginica (L.) BSP. Smooth False Foxglove.

- G. paupercula** (Gray) Britton. Purple Gerardia. Generally distributed, but not common.
tenuifolia Vahl. Slender Gerardia.
Castilleja Mutis. Painted Cup.
coccinea (L.) Spreng. Scarlet Painted Cup. Generally distributed, but not common.
Melampyrum [Tourn.] L. Cow Wheat.
lineare Lam.
Pedicularis [Tourn.] L. Lousewort.
canadensis L. Common Lousewort. Wood Betony.
lanceolata Michx. Prescott, E. F. Bishop, H. G. Jesup; West Springfield, E. Hitchcock. See *Rhodora*, Vol. VII, p. 36.
Schwalbea [Gronov.] L. Chaff-seed.
americana L. Montague, H. G. Jesup. Possibly introduced.

LENTIBULARIACEAE

- Utricularia** L. Bladderwort.
inflata Walt. Belchertown ponds, etc.
vulgaris L. Greater Bladderwort.
minor L. Smaller Bladderwort. Leverett pond, etc.
gibba L. Leverett pond, E. F. Bishop; Springfield, Mrs. M. L. Owen; and elsewhere.
intermedia Hayne. Springfield, S. Stebbins; Leverett, Belchertown, etc.
purpurea Walt. Belchertown, E. F. Bishop; Springfield, Mrs. M. L. Owen; and elsewhere.
resupinata B. D. Greene. Belchertown, E. F. Bishop.
cornuta Michx.

OROBANCHACEAE

- Epifagus** Nutt. Beech-drops. Cancer-root.
virginiana (L.) Bart.
Conopholis Wallr. Squaw-root. Cancer-root.
americana (L. f.) Wallr. Mt. Holyoke, E. Hitchcock; Mt. Tom, S. Stebbins; Mt. Toby, H. L. Clark in *Rhodora*, Vol. I, p. 165.
Orobanche [Tourn.] L. Broom-rape.
uniflora L. One-flowered Cancer-root.

PHRYMACEAE

- Phryma** L. Lopseed.
Leptostachya L.

PLANTAGINACEAE

Plantago [Tourn.] L. Plantain. Ribwort.

major L. Common Plantain. The old Indian name was "White Man's Foot," applied because of its appearance in clearings made by the early settlers. It was formerly considered as an introduced plant, but is now recognized as native to America; it is also cosmopolitan.

Rugelii Dcne. Very common.

LANCEOLATA L. Rib Grass. Ripple Grass. English Plantain. South Amherst, 1829, E. Hitchcock. Then apparently rare; now very common.

MEDIA L. Hoary Plantain. Becoming common.

Purshii R. & S. Springfield, 1879; Amherst, H. L. Clark in *Rhodora*, Vol. I, p. 165. Adventive from the West.

ARISTATA Michx. Near Pratt Field, Amherst, S. C. Brooks; Springfield, L. Andrews.

RUBIACEAE

Asperula L.

galioides Bieb. Northampton, Miss G. L. Pettis.

odorata L. Sweet Woodruff. Northampton, Miss G. L. Pettis.
See Bailey's *Enc. of Am. Hort.*, p. 108.

Galium L. Bedstraw. Cleavers.

Aparine L. Cleavers. Goose Grass. Hitchcock Catal.

VERUM L. Yellow Bedstraw. Springfield, Amherst, etc.

pilosum Ait.

circaezans Michx. Wild Liquorice.

lanceolatum Torr. Wild Liquorice.

boreale L. Northern Bedstraw.

MOLLUGO L.

trifidum L.

Claytoni Michx. Springfield, L. Andrews.

tinctorium L.

asprellum Michx. Rough Bedstraw.

triflorum Michx. Sweet-scented Bedstraw.

Mitchella L. Partridge Berry.

repens L.

Cephalanthus L. Buttonbush.

occidentalis L.

Houstonia L.

caerulea L. Bluets. Innocence.

longifolia Gaertn. Springfield.

CAPRIFOLIACEAE

Diervilla [Tourn.] Mill. Bush Honeysuckle.

Lonicera Mill.

Lonicera L. Honeysuckle.

caerulea L. var. **villosa** (Michx.) T. & G. Mountain Fly Honeysuckle. Springfield, Dr. W. H. Chapin. Mt. Holyoke, Dr. H. E. Hooker.

tatarica L. Tartarian Honeysuckle. Amherst; escaped from cultivation.

canadensis Marsh. American Fly Honeysuckle.

sempervirens L. Trumpet Honeysuckle. Sparingly spontaneous.

dioica L.

Symphoricarpos [Dill.] Ludwig. Snowberry.

racemosus Michx. Snowberry. Amherst, escaped from cultivation.

Linnaea [Gronov.] L. Twin-flower.

borealis L. var. **americana** (Forbes) Rehder.

Triosteum L. Feverwort. Horse Gentian.

perfoliatum L. Tinker's Weed. Wild Coffee.

aurantiacum Bicknell. North Wilbraham; Herb. Spfld Sci. Museum.

Viburnum [Tourn.] L. Arrow-wood. Laurestinus.

alnifolium Marsh. Hobble-bush. Witch Hobble. Moosewood. Confined to rich humus soils.

Opulus L. var. **americanum** (Mill.) Ait. Cranberry-tree. High-bush Cranberry. Pimbina.

acerifolium L. Dockmackie. Arrow-wood.

dentatum L. Arrow-wood.

cassinoides L. Withe Rod. Wild Raisin.

Lentago L. Sweet Viburnum. Sheepberry. Nannyberry. Wild Raisin.

Sambucus [Tourn.] L. Elder.

canadensis L. Common Elder.

racemosa L. Red-berried Elder.

VALERIANACEAE

Valeriana [Tourn.] L. Valerian.

officinalis L. Garden Heliotrope. Slightly escaped from gardens.

Valerianella [Tourn.] Hill. Corn Salad. Lamb's Lettuce.

radiata (L.) Dufr. Herb. Spfld Sci. Museum; Springfield railroads, Miss Eaton, 1892. Doubtfully native in this vicinity.

radiata (L.) Dufr. var. **leiocarpa** (T. & G.) Krok. Springfield, C. B. Graves in *Rhodora*, Vol. IV, p. 195.

DIPSACACEAE

- Dipsacus* [Tourn.] L. Teasel.
sylvestris Huds. Wild Teasel. Cobb's List.

CUCURBITACEAE

- Sicyos* L. One-seeded Bur Cucumber.
angulatus L.
Echinocystis T. & G. Wild Balsam-apple.
lobata (Michx.) T. & G.

CAMPANULACEAE

- Specularia* (Heist.) Fabricius. Venus's Looking-glass.
perfoliata (L.) A. DC.
Campanula [Tourn.] L. Bellflower.
rotundifolia L. Harebell. Bluebell.
aparinoides Pursh. Marsh Bluebell.

LOBELIACEAE

- Lobelia* [Plumier] L.
cardinalis L. Cardinal-flower.
 SIPHILITICA L. Great Lobelia. Occasional.
spicata Lam.
Kalmii L. South Hadley, E. Hitchcock ; Greenfield, F. G. Tuckerman ; Turner's Falls, C. S. Plumb ; Amherst, W. D. Barlow.
inflata L. Indian Tobacco.
Dortmanna L. Water Lobelia.

COMPOSITAE

- Vernonia* Schreb. Ironweed.
noveboracensis Willd. West Springfield, E. Hitchcock.
Eupatorium [Tourn.] L. Thoroughwort.
purpureum L. Joe-Pye Weed. Trumpet Weed.
purpureum L. var. *maculatum* (L.) Darl. Springfield, etc., L. Andrews.
verbernaefolium Michx.
sessilifolium L. Upland Boneset. Notch, Mt. Holyoke, H. G. Jesup.
perfoliatum L. Thoroughwort. Boneset.
urticaefolium Reichard. White Snakeroot.
Mikania Willd. Climbing Hemp-weed.
scandens (L.) Willd.
Liatris Schreb.
scariosa Willd.

Solidago L. Golden-rod.

squarrosa Muhl. Mt. Holyoke, Mt. Toby; Agawam, L. A.
Marsh; Shutesbury, Sunderland, C. S. Plumb.

caesia L.

caesia L. var. *axillaris* (Pursh.) Gray. Cobb's List.

latifolia L.

bicolor L.

puberula Nutt. Pelham, H. G. Jesup; South Hadley, Mrs. C. S.
Phelps; Amherst.

uliginosa Nutt.

speciosa Nutt.

patula Muhl.

arguta Ait. Mt. Holyoke; Leverett, H. G. Jesup.

junceae Ait.

neglecta T. & G.

odora Ait. Sweet Golden-rod.

ulmifolia Muhl.

rugosa Mill.

nemoralis Ait.

canadensis L.

altissima L.

serotina Ait.

serotina Ait. and var. *gigantea* (Ait.) Gray.

rigida L. South Hadley, E. Hitchcock; also see Hoffmann in
Rhodora, Vol. VI, p. 206.

graminifolia (L.) Salisb.

tenuifolia Pursh. Springfield, L. Andrews.

Aster [Tourn.] L. Starwort. Aster. Frost-flower.

divaricatus L.

Schreberi Nees. Springfield, L. Andrews.

macrophyllus L.

novae-angliae L.

patens Ait.

undulatus L.

cordifolius L.

laevis L.

ericoides L.

amethystinus Nutt. Hadley, E. Tuckerman, H. G. Jesup. Lev-
erett, C. S. Plumb.

multiflorus Ait.

dumosus L.

lateriflorus (L.) Britton.

Tradescanti L.

paniculatus Lam.

- A. salicifolius** Ait.
longifolius Lam.
novi-belgii L. Springfield, L. Andrews.
puniceus L.
puniceus L. var. *demissus* Lind. Northampton, R. Cameron ;
M. L. Fernald in *Rhodora*, Vol. I, p. 190.
puniceus L. var. *compactus* Fernald. Northampton, R. Cam-
eron ; M. L. Fernald in *Rhodora*, Vol. I, p. 189.
puniceus L. var. *firmus* (Nees) T. & G. Springfield, L. An-
drews.
umbellatus Mill.
linariifolius L.
ptarmicoides T. & G. South Hadley Falls ; Herb. Mt. Holyoke
College.
acuminatus Michx.
tenuifolius L.
- Erigeron** L. Fleabane.
pulchellus Michx. Robin's Plantain.
philadelphicus L.
annuus (L.) Pers. Daisy Fleabane. Sweet Scabious.
ramosus (Walt.) BSP. Daisy Fleabane.
ramosus (Walt.) BSP. var. *discoideus* (Robbins) BSP.
canadensis L. Horse-weed. Butter-weed.
- Sericocarpus** Nees. White-topped Aster.
asteroides (L.) BSP.
linifolius (L.) BSP.
- Antennaria** Gaertn. Everlasting. Ladies' Tobacco.
Parlinii Fernald. Mt. Holyoke (Notch) ; Mt. Toby, A. V. Osmun.
canadensis Greene. Springfield, L. Andrews.
plantaginifolia (L.) Richards. Plantain-leaved Everlasting.
fallax Greene. Springfield, L. Andrews.
neodioica Greene. Springfield, L. Andrews.
neglecta Greene. Springfield, L. Andrews.
- Anaphalis** DC. Everlasting.
margaritacea (L.) Benth. & Hook. Pearly Everlasting.
- Gnaphalium** L. Cudweed.
polycephalum Michx. Common Everlasting.
decurrens Ives. Everlasting.
uliginosum L. Low Cudweed.
- Inula** L. Elecampane.
HELENIUM L. Elecampane.
- Ambrosia** [Tourn.] L. Ragweed.
trifida L. Great Ragweed.

- A. trifida** L. var. *integrifolia* (Muhl.) T. & G. Springfield, L. Andrews.
artemisiifolia L. Roman Wormwood. Hog-weed. Bitter-weed.
- Xanthium** [Tourn.] L. Cocklebur. Clotbur.
SPINOSUM L. Plainfield, Porter.
STRUMARIUM L. See Britton & Brown's *Ill. Flora of N. A.*, Vol. III, p. 298.
ECHINATUM Murr. Springfield, L. Andrews.
- Heliopsis** Pers. Ox-eye.
scabra Dunal. Springfield, L. Andrews.
- Rudbeckia** L. Cone-flower.
triloba L. Springfield, L. Andrews.
HIRTA L. Yellow Daisy. Black-eyed Susan. Nigger-head.
laciniata L.
- Helianthus** L. Sunflower.
annuus L. Common Sunflower. Frequently spontaneous.
scaberrimus Ell. Springfield, L. Andrews.
giganteus L.
divaricatus L.
strumosus L.
decapetalus L.
TUBEROSUS L. Jerusalem Artichoke. Northampton meadows ; Northfield meadows.
- Coreopsis** L. Tickseed.
TINCTORIA Nutt. Roadsides.
- Bidens** L. Bur Marigold.
frondosa L. Common Beggar-ticks. Stick-tight.
connata Muhl.
cernua L. Stick-tight.
laevis (L.) BSP.
Beckii Torr. Water Marigold. Agawam river, Mrs. M. L. Owen.
- Galinsoga** R. & P.
parviflora Cav. Springfield, Dr. W. H. Chapin, 1888. Since found elsewhere occasionally.
- Helenium** L. Sneezeweed.
nudiflorum Nutt. S. C. Brooks, 1910.
autumnale L. Springfield, L. Andrews.
- Achillea** (Vaill.) L. Yarrow.
Millefolium L. Common Yarrow. Milfoil.
- Anthemis** (Mich.) L. Chamomile.
COTULA L. May-weed. Dog Fennel.
ARVENSIS L. Corn Chamomile. Amherst, in grain fields.
- Chrysanthemum** [Tourn.] L. Ox-eye Daisy.
LEUCANTHEMUM L. Ox-eye or White Daisy. Marguerite.
 White-weed. One of our worst weeds in mowings.

C. segetum L. Corn Chrysanthemum. Corn Marigold. Pansy Park, Belchertown, L. W. Goodell. Escaped from cultivation.

Parthenium (L.) Bernh. Feverfew. Springfield, L. Andrews.

Balsamita L. var. *tanacetoides* Boiss. Costmary. Mint Geranium. Roadsides, rare, E. Tuckerman.

Tanacetum L. Tansy.

VULGARE L. Common Tansy.

VULGARE L. var. *CRISPUM* DC. Occasional.

Artemisia L. Wormwood.

caudata Michx. Springfield, L. Andrews.

canadensis Michx. Mt. Sugarloaf, Sunderland.

VULGARIS L. Common Mugwort.

BIENNIS Willd. Springfield, L. Andrews.

Tussilago [Tourn.] L. Coltsfoot.

FARFARA L. Amherst, Pelham, Granville, Springfield, Dr. W. H. Chapin. One of our earliest introduced plants, but still rare.

Petasites [Tourn.] Hill. Sweet Coltsfoot.

palmaris (Ait.) Gray. Sunderland, E. Hitchcock; Amherst (1911), R. E. Torrey. Probably Dr. Hitchcock's original station was Plumtrees, Sunderland, where it has existed for many years and is still found. For a number of years it did not appear here, but it has recently come in again.

Erechtites Raf. Fireweed.

hieracifolia (L.) Raf.

Senecio [Tourn.] L. Groundsel. Ragwort. Squaw-weed.

VULGARIS L. Common Groundsel.

obovatus Muhl.

aureus L. Golden Ragwort.

Balsamitae Muhl.

Arctium L. Burdock.

LAPPA L. Great Burdock.

MINUS Bernh. Common Burdock. Springfield, L. Andrews.

NEMEROSUM Lejeune & Courtois. Springfield, L. Andrews. See M. L. Fernald and K. M. Wiegand in *Rhodora*, Vol. XII, p. 45.

Cirsium [Tourn.] Hill.

lanceolatum (L.) Hill. Common or Bull Thistle.

discolor (Muhl.) Spreng.

altissimum (L.) Spreng.

muticum Michx. Swamp Thistle.

pumilum (Nutt.) Spreng. Pasture or Bull Thistle.

ARVENSE (L.) Scop. Canada Thistle.

Onopordum (Vaill.) L. Cotton or Scotch Thistle.

ACANTHIUM L. Amherst, H. L. Clark in *Rhodora*, Vol. I, p. 164.

Centaurea L. Star Thistle.

Cyanus L. Bachelor's Button.

NIGRA L. Knapweed. Spanish Buttons. Waste places, Hardwick, E. Hitchcock; Amherst, etc.

Cichorium [Tourn.] L. Succory or Chicory.

INTYBUS L. Common Chicory. Blue Sailors. Formerly rare (1875), now quite common.

Krigia Schreb. Dwarf Dandelion.

virginica (L.) Willd.

amplexicaulis Nutt. Cynthia.

Leontodon L. Hawkbit.

AUTUMNALIS L. Fall Dandelion. "Arnica." One station noted in 1875; now rather common in some localities.

Picris L.

hieracoides L. Springfield, waste places, Mrs. M. L. Owen.

echioides L. Ox-tongue. Forest Park, Springfield, several plants noted in 1894, Mrs. M. L. Owen.

Tragopogon [Tourn.] L. Goat's Beard.

porrifolius L. Salsify. Oyster-plant. Huntington, escaped from cultivation.

pratensis L. Huntington, Northampton, escaped from cultivation.

Taraxacum [Haller] Ludwig. Dandelion.

OFFICINALE Weber. Troublesome on lawns. For many years what is known as the French dandelion has been cultivated on the Mass. Agr. College grounds, and has escaped very freely into nearby fields. It presents very different characteristics from the type even when escaped, and is susceptible to a mildew (*Podosphaera*), differing in this respect from the type.

officinale Weber. var. *palustre* (Sm.) Blytt. Springfield, L. Andrews.

ERYTHROSPERMUM Andr. Red-seeded Dandelion. Mass. Agr. College grounds.

Sonchus [Tourn.] L. Sow Thistle.

ARVENSIS L. Field Sow Thistle.

OLERACEUS L. Common Sow Thistle.

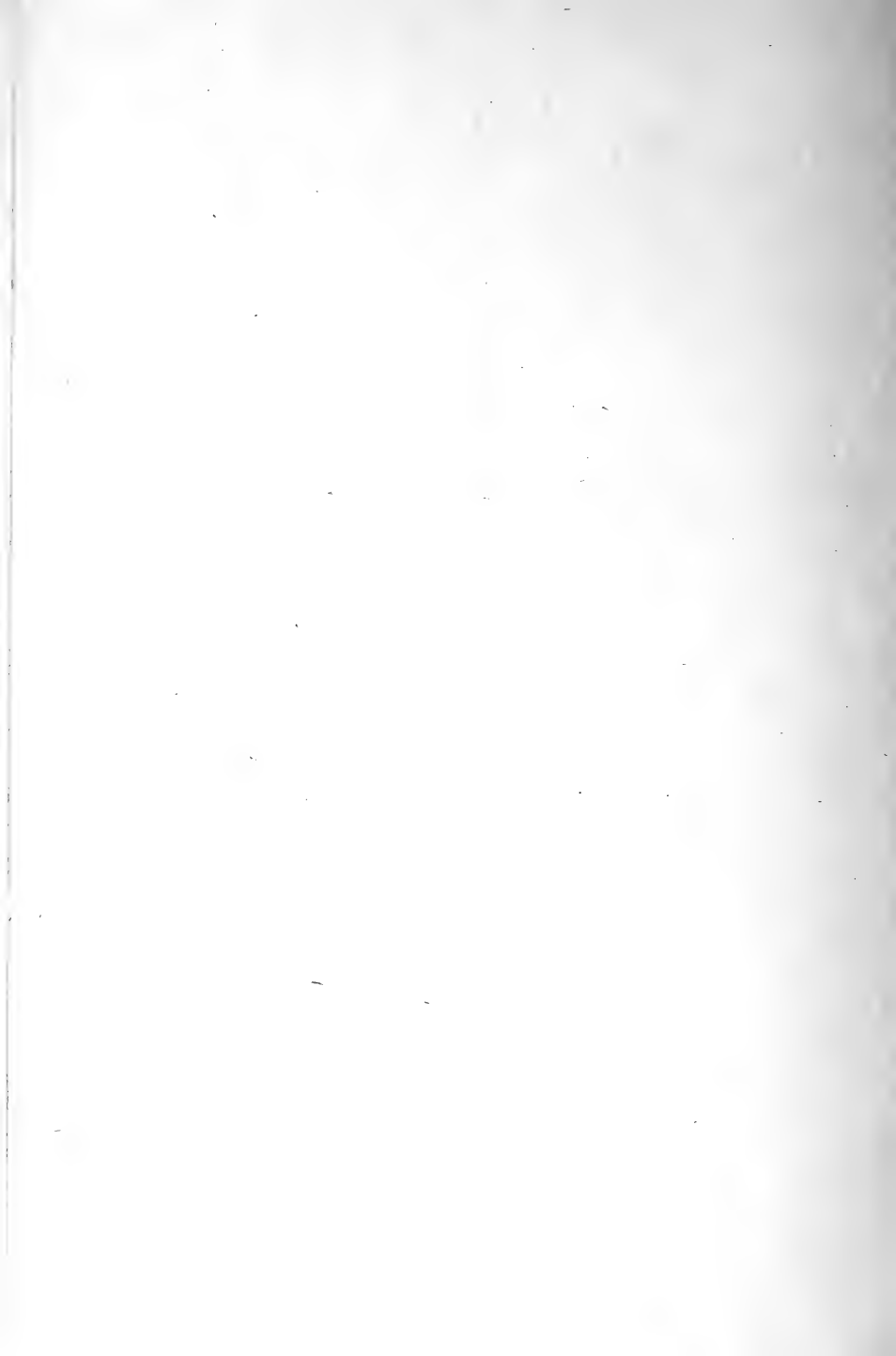
ASPER (L.) Hill. Spring-leaved Sow Thistle.

Lactuca [Tourn.] L. Lettuce.

SCARIOLA L. Prickly Lettuce. Springfield, L. Andrews.

SCARIOLA L. var. *INTEGRATA* Gren. & Godr. Springfield, L. Andrews.

- L. canadensis** L. Wild Lettuce. Horse-weed. Springfield, L. Andrews.
- integrifolia** Bigel.
- hirsuta** Muhl. Amherst, H. G. Jesup.
- spicata** (Lam.) Hitchc.
- Crepis** L. Hawk's Beard.
- capillaris** (L.) Wallr. Springfield, L. Andrews.
- Prenanthes** (Vaill.) L. Rattlesnake-root.
- alba** L. White Lettuce. Rattlesnake-root.
- trifoliata** (Cass.) Fernald. Gall-of-the-earth.
- altissima** L.
- Hieracium** [Tourn.] L. Hawkweed.
- AURANTIACUM** L. Orange Hawkweed. Devil's Paint-brush.
Formerly cultivated in gardens, and for the past 15 years a noxious weed in hay fields and on higher elevations, especially in Worcester and Berkshire counties.
- venosum** L. Rattlesnake-weed. Poor Robin's Plantain.
- paniculatum** L.
- marianum** Willd. Dry Hill, Montague, R. E. Torrey.
- scabrum** Michx.
- Gronovii** L.
- MURORUM** L. Golden Lungwort. Established in open woods. Northampton, Mrs. E. H. Terry; *Rhodora*, Vol. VII, p. 80.
- canadense** Michx.



Index to Genera and Common Names.

	Page		Page		Page		Page
A							
Abies	5	Aquilegia	30	Beech-drops	56	Brake	1
Abutilon	42	Arabis	32	Beggar's Lice	52	Bramble	36
Acalypha	40	Aralia	45	Belamcanda	19	Brasenia	29
Acer	41	Arceuthobium	24	Bellflower	59	Brassica	32
Achillia	62	Arctium	63	Bellwort	17	Bristly Crowfoot	29
Acorus	16	Arctostaphylos	49	Bent Grass	9	Foxtail Grass	8
Actaea	30	Arenaria	27	Benzoin	31	Sarsaparilla	45
Adder's Mouth	21	Arethusa	20	Berberis	30	Briza	10
Tongue	2	Arisaema	16	Bermuda Grass	10	Brome Grass	11
Adiantum	1	Aristida	8	Berteroa	31	Bromus	11
Adlumia	31	Aristolochia	24	Berula	46	Broom-rape	56
Aesculus	41	Aromatic Winter-		Betula	23	Buckbean	50
Agastache	53	green	49	Bidens	62	Buckthorn	42
Agrimonia	30	Arrhenatherum	10	Bindweed	51	Buckwheat	26
Agropyron	11	Arrow Arum	16	Bird-foot Violet	43	Buffalo Currant	34
Agrostemma	28	Arrow-head	7	Bird's Foot Tre-		Bugbane	30
Agrostis	9	foil	38	foil	38	Bugle Weed	54
Ailanthus	40	Tear-thumb	25	Birthwort	24	Bugloss	52
Alder	23	Arrow-wood	58	Bitter Cress	32	Bulbous Butter-	
Aletris	18	Artemisia	63	Dock	25	cup	29
Alfalfa	38	Asarum	24	Nut	22	Bullace Plum	37
Alisma	7	Asclepias	51	Bitter-sweet	54	Bulrush	12
Allium	17	Ash	50	Black Alder	41	Burdock	63
Alnus	23	Asparagus	18	Ash	50	Bur Marigold	62
Alopecurus	9	Asperula	57	Bindweed	25	Bur-reed	6
Alsike Clover	37	Aspidium	1	Gum	47	Bush Clover	38
Alyssum	ii, 31	Asplenium	1	Henbane	54	Honeysuckle	58
Amaranth	26	Aster	60	High Blueberry	49	Buttercup	29
Amaranthus	ii, 26	Avena	10	Huckleberry	49	Butterfly-weed	51
Ambrosia	61	Avens	36	Medick	38	Butternut	22
Amelanchier	34	Awned Wheat		Mustard	32	Buttonbush	57
American Aspen	22	Grass	11	Poplar	22		
Bladder Nut	41	B		Snakeroot	30	C	
Brooklime	55	Bachelor's But'n	64	Spruce	5	Calamagrostis	9
Elm	24	Bald Rush	12	Sugar Maple	41	Calingale	11
Fly Honey-		Balm	53	Walnut	22	Calla	16
suckle	58	Balm of Gilead	22	Willow	21	Callitriche	40
Germander	52	Balmomy	55	Blackberry Lily	19	Calluna	49
Mountain Ash	31	Balsam	42	pion	28	Calopogon	20
Pennyroyal	53	Fir	5	Fern	2	Caltha	30
Wh. Hellebore	17	Poplar	22	Bladderwort	56	Camelina	31
Yew	5	Baneberry	30	Blephilia	53	Campanula	59
Ammania	44	Baptisia	37	Blood Root	31	Campion	28
Amorpha	38	Barbarea	32	Blueberry	49	Camptosorus	1
Ampelopsis	42	Barnyard Grass	8	Blue Cohosh	30	Canada Blue	
Amphicarpa	39	Curls	52	Curls	52	Grass	10
Anaphalis	61	Barren Strawb'y	35	Tangle	49	Thistle	63
Andromeda	48	Bartonia	50	Vervain	52	Violet	44
Andropogon	7	Basil	53	Blue-eyed Grass	19	Canadi'n Burnet	30
Anemone	29	Basswood	42	Blue-joint Grass	9	Canary Grass	8
Anemonella	29	Bastard Penny-		Blue-weed	52	Cannabis	24
Anethum	36	royal	52	Bluets	57	Capsella	31
Angelica	47	Toad-flax	24	Boehmeria	24	Caraway	46
Antennaria	61	Bayberry	22	Bog Rosemary	48	Cardamine	32
Anthemis	62	Beak Rush	13	Rush	17	Cardinal-flower	59
Anthoxanthum	8	Beaked Hazeln't	23	Botrychium	2	Carex	13, 14, 15
Anychia	37	Bearberry	49	Bottle-brush		Carpet Weed	27
Apios	29	Beard Grass	7	Grass	11	Carpinus	23
Aplectrum	21	Bear Oak	23	Bottle Grass	8	Carriion Flower	18
Apocynum	50	Bedstraw	57	Bouncing Bet	28	Carrot	47
Apple	34	Beech	23	Box Elder	41	Carum	46
Apple of Peru	54	Fern	1	Brachyelytrum	9	Carya	22

Cassia	37	Comfrey	52	Datura	54	Erysimum	32
Castalia	29	Commelina	16	Daucus	47	Erythronium	18
Castanea	23	Cone-flower	62	Day Lily	17	Eupatorium	59
Castilleja	56	Conium	40	Decodon	44	Euphorbia	40
Catchfly	58	Conopholis	56	Deerberry	49	European Millet	7
Cat Mint	23	Conringia	32	Deer Grass	44	Mountain Ash	34
Catnip	53	Convallaria	18	Dentaria	32	Even'g Primrose	45
Cat-tail	6	Convolvulus	51	Deptford Pink	58	Everlasting	61
Cat-tail Flag	6	Coptis	30	Deschampsia	10	Pea	39
Caulophyllum	30	Coral Root	21	Desmodium	38		
Ceanothus	42	Corallorrhiza	21	Dianthus	28		
Celandine	31	Coreopsis	62	Dicentra	31	F	
Celastrus	41	Corn Chamomile	62	Dicksonia	2	Fagopyrum	26
Celtis	24	Chrysanthem	63	Diervilla	58	Fagus	23
Cenchrus	8	Cockle	28	Digitaria	7	Fall Dandelion	64
Centaurea	64	Gromwell	52	Dipsacus	59	False Flax	31
Cephalanthus	57	Salad	58	Dirca	44	Gromwell	52
Cerastium	27	Speedwell	55	Ditch Stonecrop	33	Hellebore	17
Ceratophyllum	28	Spurrey	27	Dock	25	Indigo	37
Chaff-seed	56	Cornel	47	Dockmackie	58	Loosestrife	45
Chain Fern	1	Cornus	48	Dogbane	50	Miterwort	33
Chamaecyparis	5	Coronilla	33	Dog's Tooth	18	Nettle	24
Chamaedaphne	49	Costmary	61	Violet	40	Pimpernel	55
Chamomile	62	Corydalis	33	Dogwood	55	Solomon's Seal	18
Cheat Grass	11	Corylus	23	Downy False	23	Spikenard	18
Chelidonium	31	Cotton Grass	13	Foxglove	44	Fescue Grass	11
Chelone	55	Thistle	64	Green Alder	9	Festuca	11
Chenopodium	26	Cottonwood	22	Yellow Violet	33	Fever Bush	31
Chestnut	23	Cow Lily	46	Drop-seed	10	Feverfew	63
Oak	23	Parsnip	50	Drosera	6	Feverwort	58
Chickweed	27	Wheat	7	Duckweed	12	Field Mouse-ear	27
Chicory	64	Crab Grass	39	Dulichium	31	Chickweed	64
Chimaphila	47	Cracca	21	Dutchman's	67	Sow Thistle	55
Chinquapin Oak	23	Crack Willow	58	Breches	47	Figwort	12
Chiogenes	49	Cranberry-tree	58	Dandelion	46	Fimbristylis	7
Chokeberry	34	Crane Fly Orchis	21	Ginseng	22	Finger Grass	5
Choke Cherry	37	Cranesbill	39	Gray Willow	24	Fir	63
Christmas Fern	1	Crataegus	35	Mistletoe	36	Fireweed	39
Chrysanthemum	62	Creeping Snow-	49	Raspberry	40	Flax	61
Chrysosplenium	33	berry	29	Sumac	30	Fleabane	19
Cichorium	64	Spearwort	54			Fleur-de-lis	9
Cicuta	46	Thyme	65	E		Floating Foxtail	50
Cimicifuga	39	Crepis	37	Early Crowfoot	29	Heart	48
Cinna	9	Crimson Clover	29	Meadow Rue	33	Fl'w'r'g Dogwood	2
Cinnamon Fern	2	Crotaria	37	Saxifrage	30	Fern	42
Rose	37	Crowfoot	46	Echinochloa	8	Flow'r-of-an-hour	27
Cinquefoil	35	Cryptogramma	32	Echinocystis	59	F'rkd Chickweed	11
Circaea	45	Cryptotaenia	55	Echium	52	Fowl Mead. Grass	9
Cirsium	63	Cuckoo Flower	34	Eel Grass	7	Fragaria	35
Cladium	13	Culver's-root	29	Elaeagnus	44	Fraxinus	50
Clammy Azalea	48	Currant	51	Elder	58	Fringed Gentian	19
Locust	38	Cursed Crowfoot	8	Elecampane	61	Orchis	40
Claytonia	28	Cuscuta	52	Eleocharis	10	Polygala	42
Cleavers	57	Cut-grass	64	Eleusine	10	Frost Grape	43
Clematis	30	Cynodon	11	Elm	7	Frostweed	13
Clethra	47	Cynoglossum	5	Elymus	11	Fuina	31
Cliff Brake	1	Cynthia	40	Enchanter's	45	Fumaria	62
Climbing False	25	Cyperus	19	Nightshade	56	Fumitory	
Buckwheat	2	Cypress	49	Epifagus	49		
Fern	31	Spurge	59	Epigaea	45	Galinsoga	62
Fumitory	59	Cypripedium	18	Epilobium	53	Galium	57
Hemp-weed	18	Cystopteris	50	Epipactis	65	Galeopsis	53
Clintonia	50			Equisetum	10	Gall-of-the-earth	18
Closed Gentian	37	D		Eragrostis	63	Gard. Asparagus	58
Clover	3	Dactylis	10	Erechtites	61	Heliotrope	33
Club Moss	62	Daisy Fleabane	36	Erigeron	16	Orpine	37
Cocklebur	18	Dalibarda	64	Eriocaulon	13	Sorrel	25
Colic Root	54	Dandelion	11	Eriophorum			
Collinsonia	63	Danthonia					
Coltsfoot	24	Darnel					
Columbine							
Comandra							

Marsh Marigold	30	Myriophyllum	45	Pale Corydalis	31	Polygonum	25
Speedwell	55			Dock	31	Polypodium	1
St. John's-wort	43			Laurel		Polypody	1
Mat Grass	11	N		Touch-me-not	42	Polystichum	1
Matrimony Vine	54			Panax	7	Pondweed	6
May Apple	30	Naiad	6	Panic Grass	46	Pontoderia	17
Mayflower	49	Najas	6	Panicum	7	Poplar	22
May-weed	62	Nardus	11	Pansy	44	Populus	22
Meadow Fescue	11	Neckweed	55	Paper Birch	23	Portulaca	28
Foxtail	9	Nemopanthus	41	Pappoose Root	30	Potamogeton	6
Grass	10	Nepeta	53	Parietaria	24	Potentilla	35
Parsnip	46	Nettle	24	Parnassia	33	Poverty Grass	8
Rue	29	New Jersey Tea	42	Parsnip	46	Prairie Willow	22
Meadow-sweet	34	Nicandra	54	Partridge Berry	57	Prenanthes	65
Medeola	18	Night Flowering	54	Paspalum	63	Prickly Ash	39
Medic	31	Campion	28	Pastinaca	46	Gooseberry	34
Medicago	38	Nightshade	54	Pasture Thistle	63	Lettuce	64
Medick	38	Northern Bed-		Pearlwort	27	Primrose-leaved	
Melampyrum	56	straw	57	Pearly Everlas'g	61	Violet	43
Melilotus	ii, 38	Fox Grape	42	Pedicularis	56	Prince's Feather	25
Melissa	53	Norway Spruce	5	Pellaea	1	Pine	47
Menispermum	30	Nut Rush	13	Pellitory	24	Privet	50
Mentha	54	Nymphaea	28	Peltandra	16	Proserpinaca	45
Menyanthes	50	Nymphoides	50	Penthorum	33	Prunus	37
Mermaid-weed	45	Nyssa	47	Pentstemon	55	Prunella	53
Mexican Tea	20			Peppergrass	31	Psedera	42
Microstylis	21			Peppermint	54	Psilocarya	12
Mikania	59	O		Petasites	63	Ptelea	39
Mild Water				Phalaris	8	Pteris	1
Pepper	25	Oak	23	Phegopteris	1	Pterospora	48
Milk Purslane	40	Oakesia	17	Phleum	9	Purple Amaranth	26
Milkweed	51	Oat	10	Phlox	51	Azalea	48
Milkwort	40	Grass	10	Phragmites	10	Flower'g Rasp.	36
Mimulus	55	Oenothera	45	Phryma	56	Fringed Orchis	20
Mint	54	Old-witch Grass	7	Phyllis	50	Gerardia	56
Mitchella	57	One-flowered	56	Phytolacca	20	Milkweed	51
Mitella	33	Cancer-root	56	Picea	5	Thorn Apple	54
Miterwort	33	Pyrola	47	Pickerel Weed	17	Willow	22
Mocker Nut	22	One-seeded Bur	59	Picris	64	Purslane	28
Mock Pennyroyl	53	Cucumber	17	Pigeon Grape	42	Putty Root	21
Mollugo	27	Onion	59	Grass	8	Pycnanthemum	54
Monarda	53	Onoclea	2	Pig Nut	22	Pyrola	47
Moneses	47	Onopordum	64	Pigweed	26	Pyrus	34
Moneywort	49	Onosmodium	52	Pilea	24		
Monkey Flower	55	Ophioglossum	2	Pin Oak	23	Q	
Monotropa	47	Orange Grass	43	Pine	5	Quaking Grass	10
Moonseed	30	Hawkweed	65	Drops	48	Quercus	23
Moonwort	2	Orchard Grass	10	Pinesap	47	Quillwort	4
Morning Glory	51	Orchis	19	Pink	28		
Morus	24	Origanum	54	Pinus	5		
Mossy Stonecrop	33	Ornithogalum	18	Pinweed	43	R	
Motherwort	53	Orobancha	56	Pipewort	16	Rabbit-foot	37
Moth Mullein	55	Oryzopsis	8	Pipsissewa	47	Radicula	32
Mountain Fly		Osmorhiza	46	Pipewort	16	Radish	32
Honeysuckle	58	Osmunda	2	Plantain	57	Ragged Fringed	
Holly	41	Ostrich Fern	2	Plantain-leaved	57	Orchis	20
Laurel	48	Ostrya	23	Everlasting	61	Robin	28
Maple	41	Oswego Tea	53	Platanus	34	Ragweed	61
Mint	54	Oxalis	39	Plum	37	Ram's Head	
Rice	8	Ox-eye	62	Poa	10	Lady's Slip'r	19
Mouse-ear Chick-		Daisy	62	Podophyllum	30	Ramsted	55
weed	27	Ox-tongue	64	Podostemum	33	Ranunculus	ii, 29
Moxie Plum	49	Oxybaphus	27	Pogonia	20	Raphanus	32
Mud Plantain	17			Poison Hemlock	46	Rattle-box	37
Mugwort	63			Ivy	51	Rattlesnake Fern	3
Mulberry	24			Poke Milkweed	40	Grass	11
Mullein	55	P		Pokeweed	26	Plantain	20
Muscari	18	Painted Cup	56	Polygala	40	Rattlesnake-root	65
Musk Mallow	42	Trillium	18	Polygonatum	18	Rattlesn'e-weed	65
Mustard	32			Polygonella	26		
Myosotis	52						
Myrica	22						

Red Ash	50	Sand Bar Willow	21	Small Solomon's Seal	18	Stickseed	52
Baneberry	30	Cherry	37	Smaller Bladderwort	56	Stiff Water Crow-foot	29
Campion	28	Spurrey	27	Yellow Lady's Slipper	19	St. John's-wort	43
Cedar	5	Sandbur	8	Small-flowered Crowfoot	29	Stoncrop	33
Clover	37	Sandwort	27	Smartweed	25	Stramonium	54
Currant	37	Sanguinaria	31	Smilacina	18	Strawberry	35
Maple	41	Sassafras	31	Smilax	18	Blite	26
Mulberry	24	Satureja	53	Smooth Alder	23	Tomato	54
Oak	23	Savory	53	False Foxglove	55	Streptopus	18
Pine	5	Saxifraga	33	Gooseberry	34	Striped Maple	41
Spruce	5	Scarlet Oak	23	Sumac	40	Struthiopteris	2
Top	9	Painted Cup	56	Winterberry	41	Sugarberry	24
Red-ber'd Elder	58	Scheuchzeria	7	Snowberry	58	Sugar Maple	41
Red-ozier Dog-wood	47	Schwalbea	55	Solidago	60	Sumac	40
Red-root	42	Scirpus	12	Solomon's Seal	18	Sundew	33
Red-seeded Dan- delion	64	Scleria	13	Sonchus	64	Sundrops	45
Reed	10	Scorpion-grass	52	Sorbaria	34	Sunflower	62
Bent Grass	9	Scotch Pine	5	Sow Thistle	6	Swamp But'rcup	29
Canary Grass	8	Scouring Rush	3	Spartina	10	Dock	25
Meadow Grass	11	Scrophularia	55	Spearment	54	Loosestrife	44
Rhamnus	42	Scutellaria	53	Speckled Alder	23	Milkweed	51
Rhexia	44	Sedge	13	Specularia	59	Saxifraga	33
Rhododendron	48	Sedum	33	Speedwell	55	Thistle	63
Rhus	40	Seedbox	45	Sphenopholis	9	White Oak	23
Ribbon Grass	8	Selaginella	3	Spergularia	27	Sweet Birch	23
Ribes	34	Self-heal	53	Spergularia	27	Sweetbrier	37
Rib Grass	57	Sempervivum	33	Spice Bush	31	Cicely	46
Rice Cut-grass	57	Senecio	63	Spiderwort	16	Clover	38
Richweed	24	Senna	37	Spiked Loose- strife	44	Coltsfoot	63
River-b'nk Grape	42	Sensitive Fern	2	Spikenard	45	Fern	22
River Bulrush	12	Sericocarpus	61	Spike Rush	12	Flag	16
Weed	33	Setaria	8	Spiraea	34	Gale	22
Robinia	38	Shad Bush	34	Spiranthes	20	Golden-rod	60
Robin's Plantain	61	Shagbark Hick'y	22	Spirodela	16	Pepperbush	47
Rock Brake	1	Sheep Laurel	48	Spleenwort	1	Vernal Grass	8
Cress	32	Sorrel	25	Sporobolus	9	Viburnum	58
Rockrose	43	Sheep's Fescue	11	Spotted Cowbane	46	William Catchfly	57
Roman Worm- wood	62	Sheph'rd's Purse	31	Touch-me-not	42	Woodruff	28
Rosa	37	Shield Fern	1	Wintergreen	47	Switch Grass	7
Rose	37	Shin Leaf	47	Spreading Dog- bane	50	Sycamore	34
Mallow	42	Shining Willow	21	Spring Beauty	28	Symphoricarpos	58
Rough Bedstr'w	57	Showy Lady's Slipper	19	Cress	32	Symplocarpus	16
Rough-stalked Mead'w Gr's	10	Orchis	19	Vetch	38		
Round-leaved Cornel	47	Shrubby Cinque- foil	35	Spring-leaved Sow Thistle	64	T	
Sundew	33	Sickle-pod	32	Spruce	5	Taenidia	46
Violet	44	Sicyos	59	Spurge	40	Tall Buttercup	29
Rubus	36	Silene	28	Spurred Gentian	50	Gypsophyll	28
Rudbeckia	62	Silky Cornel	47	Squaw-root	56	Meadow Rue	29
Rue Anemone	29	Willow	22	Squirrel Corn	31	Oat Grass	10
Rumex	25	Silver Maple	41	Stachys	53	Red Top	10
Rush	17	Silvery Cinquef'l	35	Staff Tree	41	Tanacetum	63
Grass	9	Sisymbrium ii	32	Staghorn Sumac	40	Tansy	63
Russian Thistle	26	Sisyrinchium	19	Staphylea	41	Tartarian Honey- suckle	58
Rutabaga	32	Sium	46	Star Flower	50	Taraxacum	64
Rye Grass	11	Skullcap	53	Grass	18	Taxus	5
Rynchospora	13	Skunk Cabbage	16	Thistle	64	Teaberry	49
		Currant	34	Star of Bethle'm	18	Teasel	59
		Sleepy Catchfly	28	Starry Campion	28	Tephrosia	38
		Slender Gerardia	56	Steironema	49	Teucrium	52
		Slippery Elm	24	Stellaria	27	Thalictrum	29
		Slopp'g Grass	10	Stemless Lady's Slipper	19	Thaspium	46
		Small Cranberry	49	Stenophyllus	12	Thimbleberry	36
		Bugloss	52			Thin Grass	9
						Thistle	63
						Thorny Amaranth	26
Sagina	27						
Sagittaria	7						
Salix	21						
Salsify	64						
Salsola	26						
Saltwort	26						
Sambucus	58						

Thoroughwort 59	Utricularia 56	Water Purslane 45	Wild Senna 3
Three-seeded Mercury 40	Uvularia 17	Shield 29	Sensitive Plant 37
Three-toothed Cinquefoil 35	V	Smartweed 25	Teasel 59
Thyme-leaved Sandwort 27	Vaccinium 49	Speedwell 55	Yellow Lily 17
Speedwell 55	Valerian 58	Starwort 40	Willow 21
Thymus 54	Valeriana 58	Willow 44	Willow-herb 45
Tiarella 33	Valerianella 58	Water-weed 7	Winter Cress 32
Tickseed 62	Vallisneria 7	Waxwork 41	Wintergreen 47
Tick 1refoil 38	Vanilla Grass 8	Weeping Willow 21	Witch Grass 11
Tilia 42	Velvet Leaf 42	White Alder 47	Hazel 34
Timothy 9	Grass 9	Ash 50	Wood Anemone 29
Tinker's Weed 58	Venus's Looking-glass 59	Baneberry 30	Mint 53
Tipularia 21	Veratrum 17	Bent Grass 9	Nettle 24
Toothache tree 39	Verbasum 55	Birch 23	Reed Grass 9
Toothwort 32	Verbena 52	Campion 28	Rush 17
Tradescantia 16	Vernonia 59	Cedar 4	Sorrel 2
Tragopogon 64	Veronica 55	Clover 37	Woodsia 39
Treacle Mustard 32	Vervain 52	Fringed Orchis 20	Woodwardia 1
Tree of Heaven 40	Vetch 38	Grass 8	Wool Grass 12
Trichostema 52	Vetchling 39	Lettuce 65	Worm-seed 32
Tridens 10	Viburnum 58	Melilot 65	Mustard 32
Trientalis 50	Vicia 38	Mulberry 24	Wormwood 63
Trifolium 37	Viola 43	Mustard 32	
Trillium 18	Violet 43	Oak 23	X
Triosteum 58	Wood Sorrel 39	Pine 5	Xanthium 62
Triple-awn Grass 8	Viper's Buglose 52	Poplar 22	Xyris 16
Trisetum 9	Virginia Creeper 42	Snakeroot 59	
True Forget-me-not 52	Snakeroot 24	Vervain 52	Y
Water Cress 32	Virgin's Bower 30	Water Crowfoot 29	Yarrow 62
Trumpet Honey-suckle 58	Vitis 42	Willow 21	Yellow Adder's Tongue —
Tsuga 5		White-topped Aster 61	Bedstraw 57
Tufted Loosestrife 49	W	Wild Balsam-apple 59	Birch 23
Tulip Tree 30	Wake Robin 18	Bergamot 53	Clover 37
Tumble Weed 26	Waldsteinia 35	Black Cherry 37	Cress 32
Tupelo 47	Walking Leaf 1	Black Currant 34	Daisy 62
Turk's-cap Lily 17	Wall Rue 1	Chess Grass 11	Dock 25
Turtlehead 55	Walnut 22	Columbine 30	Fringed Orchis 20
Tussilago 63	Water Arum 16	Cranesbill 39	Melilotus 38
Twayblade 21	Avens 36	Garlic 17	Pond Lily 28
Twig Rush 13	Beech 23	Ginger 24	Water Crowfoot 29
Twin-flower 58	Cress 32	Indigo 37	Yellow-barked Oak 23
Twisted Stalk 18	Hemlock 46	Leek 17	Yellow-eyed Grass 16
Typha 6	Horehound 54	Lettuce 65	Yew 5
U	Waterleaf 51	Liquorice 57	
Ulmus 24	Water Lily 29	Oat Grass 10	Z
Umbrella Grass 13	Lobelia 59	Orange-red Lily 17	Zanthoxylum 39
Tree 30	Marigold 62	Pansy 44	Zizania 8
Upland Boneset 59	Milfoil 45	Peppergrass 31	Zizia 46
Urtica 24	Parsnip 46	Pink 28	
	Pennywort 46	Plum 37	
	Plantain 7, 29	Radish 32	
		Red Cherry 37	
		Red Raspberry 36	
		Sarsaparilla 45	

New York Botanical Garden Library

OK 125.S815

Stone, George Edward/A list of plants gro

gen



3 5185 00126 6319

